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MANUFACTURERS RECORD

A WEEKLY SOUTHERN INDUSTRIAL, RAILROAD AND FINANCIAL NEWSPAPER

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BALTIMORE, FEBRUARY 9, 1911.

LET THE COUNTRY REST.

Nothing in the proposed reciprocity agreement with Canada or nothing in any other public proposition before the country justifies the suggestion of an extra session of the Congress. Extra sessions are usually loaded at both ends. They fall short of their pretended purpose and spring surprises frequently disastrous. They leave undone the things that ought to be done and do those things that ought not to be done. There is no health in them. But a general confession cannot cure.

THE CALL TO CONFIDENCE.

The plan of the directors of the Harriman system to spend within the next five years $75,000,000 in completing, for a distance of nearly 1700 miles, the double-tracking of the system lying between the Missouri River to the Pacific Coast ought to have a spurring effect upon the steel trade and other industries directly affected by activity in railroad construction. Rails, bridges, etc., will call for several hundred thousand tons of steel; it is likely that much Portland cement will be required for various purposes, and the crosstie item will be considerable. But the contribution to greater activity in industries in the expenditure of so large an amount of money by one railroad system is of secondary importance to the effect upon the country's morale of the courage displayed in the announcement of the plan. That was made in full knowledge of present embarrassments for railroads in increased wages, paralleling hampered rate-making and of still threatening attitude, in spite of sharp lessons, of legislative bodies toward corporations generally and railroad corporations in particular. But the Harriman directors, nevertheless, feel that "in the long run the people are going to treat railroad investments just as they treat other investments for the development" of the section, and they are resolved to do their part toward keeping the system abreast of that development and in preparation for the business that must come to the prepared in the development of the vast region tributary to the line and its branches.

It is for the people of the country to show that they take at its full value this plan, to call a halt to the influences that would hobble the railroads in their efforts to obtain the means for giving the country the facilities in transportation that it needs and thereby to encourage other railroads to fall into line with the courageous policy of the Union Pacific system.

PROMOTING PUBLICITY.

Several weeks ago the MANUFACTURERS RECORD published letters from three-score Mayors of leading cities in the country giving the reasons, from municipal standpoints, for the growth of those cities in the past 10 years. The Arkansas *Gazette* of Little Rock subsequently used a number of the letters as texts for editorials full of suggestion for communities anxious to advance. These editorials have been followed by the publication in the *Gazette* of letters from officials in Arkansas counties telling of conditions and of opportunities for investors and homeseekers. This series of letters, together with the comments upon them, of the *Gazette* is forming a splendid epitome of material conditions in Arkansas, and, besides creating a basis for comparison among the counties themselves, is tending to advertise the State as a whole.

$10,000 IN FARM PRIZES.

Not content with what Texas is doing agriculturally, and fully cognizant of its potentialities in that respect, the Texas Industrial Congress has offered $10,000 in gold for the best crops of corn and cotton raised without irrigation in the coming year. Of the total amount, $6500 will be divided into fifteen prizes for the largest yields from ten acres of corn and ten acres of cotton, the first prize being $2500; the second, $1500; the third, $750; the fourth, $500; the fifth, $250, and ten others of $100 each. The competition for these prizes is open to men, women, boys and girls, regardless of age. The remaining $3500 will be divided into fourteen prizes for the largest yield from two acres of corn and from two acres of cotton made by boys or girls not over twenty years of age on January 1, 1911, the first prize being $1000; the second, $750; the third, $500; the fourth, $250, and ten others, $100 each. In explanation of this offer, Mr. Henry Exall of Dallas, president of the Texas Industrial Congress, holds it to be an important movement in the campaign of agricultural education that will lead farmers to appreciate the pressing necessity of conserving fertility of the soil and increasing its productiveness. He urges commissioners' courts and business men's associations throughout the State to offer supplementary prizes and co-operation on the part of county officials, merchants, bankers, landlords and tenant farmers to bring about the best results in the contest.

Texas harvested last year 181,280,000 bushels of corn, and its estimated cotton crop was 3,140,000 bales of 500 pounds each. Great as was its corn crop, having a farm value of $114,206,000, it did not equal the production of 201,848,000 bushels, having a value of $119,090,000, in 1908. But the $114,000,000 worth of corn in 1910 was raised upon 8,800,000 acres, while the $119,000,000 worth of 1908 was raised upon 7,854,000 acres, the average value per acre in 1908 having been $15.16, and in 1910 $12.98. The average yield per acre was about five bushels less in 1910 than in 1908. Texas has surpassed in average yield per acre the record of 1908, having made 26.4 bushels per acre in 1895, for instance. What it has done it can do again. And it would be difficult to suggest a more effective plan to induce the making of the most from the land than that which the Texas Industrial Congress is promoting.

TO GET INDUSTRIES.

Gadsden, Ala., has a population of 10,557, according to the 1910 census. It has also a Business Men's Club that is alive. About two years ago, under the auspices of that club, $150,000 were raised as an inducement to the Southern Iron & Steel Co. to establish in the city its wire, rod and nail mill. The success of that movement has led to the endorsement by the Business Men's Club of a plan to raise a fund of $150,000 to met investments in small industries. Under the plan subscriptions are to be asked in units of not less than $1000 or more than $10,000. From the fund a company with an actual capital of $100,000 coming to the city will be given $10,000 in two instalments. A subscriber of $1000 to the $150,000 will be called on to pay $33.33 when the new industry is located at Gadsden and $33.34 when it is finished and in operation 60 days. This plan is safe for subscribers, it gives the executive officer of the Business Men's Club a definite proposition to offer capitalists seeking location for industrial investment, and it is in itself the biggest sort of an advertisement of the aggressive and progressive spirit of the people of Gadsden, without which spirit advantages of location as to sources of material for manufacturing, as to labor supply, as to cost of living and as to facilities for distribution of finished goods are of secondary importance. If some larger cities had the spirit that can raise, for the promotion of industries, sums of money averaging $15 to each inhabitant, as Gadsden has done and proposes to do again, much talk about advertising cities of the South, and the South as a whole, would be catalogued as it deserves to be. The Gadsden plan might not be applicable to every city; a smaller place might not be in a position to adopt it profitably or wisely; a larger city might find a better way. But Gadsden hits the bull's-eye of fundamental principle, that must dominate in every community wishing to expand, when it tells investors that it will show forth its faith in itself by investing in newcoming industries.

COMMERCE AT SOUTHERN PORTS

Through eighty-eight customs districts and ports of the United States there passed in the calendar year 1910 for foreign export merchandise valued at $1,864,491,644. Through three ports passed merchandise valued at $1,062,212,189, or nearly 57 per cent. of the total. One of those ports was New York, with exports valued at $705,117,997, and two of them were Southern ports, Galveston, $201,875,443 and New Orleans, $155,218,749. The importance of these two Southern ports in American foreign trade, thus suggested, is emphasized by the fact that their combined export values, $357,094,192, were greater by $114,614,615 than the combined value of exports from 23 Northern border districts and more than four times as great as the combined values of exports from 10 Pacific coast districts, which equaled 879,949,637. Baltimore exported within $5,000,000 of the total exports from the Pacific coast. The combined exports and imports at New Orleans, $216,467,008, were more than $40,000,000 greater than the combined exports and imports of the Pacific coast, and the exports alone at Galveston were more than $25,000,000 greater than the combined Pacific coast exports and imports.

Suggestive of the trend of export trade in this country are the figures in the following table, showing the values of exports from a number of Southern ports in comparison with their populations:

Districts.	Exports.	Population.	Exports per capita.
Baltimore, Md.....	$72,969,110	558,485	$130
Brunswick, Ga.....	13,933,368	10,182	1368
Charleston, S. C...	7,494,296	58,833	127
Fernandina, Fla...	7,096,910	3,492	2032
Jacksonville, Fla..	2,634,109	57,699	46
Newport News, Va.	4,859,851	20,205	240
N'rf'k-P'tsm'th, Va.	8,945,316	100,642	88
Savannah, Ga.....	62,283,108	65,064	957
Wilmington, N. C.	27,404,766	25,748	1064
Galveston, Tex.....	201,875,443	36,981	5458
Key West, Fla.....	1,118,254	19,945	56
Mobile, Ala.....	29,351,343	51,521	569
New Orleans, La..	155,218,749	339,075	457
Pensacola, Fla.....	20,379,458	22,982	886
Tampa, Fla.....	4,942,738	37,782	130
C'pus Christi, Tex.	15,737,609	8,299	1655

New York led the country in exports. The value of those exports per each inhabitant of New York was $148, of San Francisco $87 and of Philadelphia $43. But Baltimore, with a population of 558,485, exported $6,700,000 more than Philadelphia, which has a population of 1,549,008, and the value of its exports per each inhabitant was $130. Some of the values per each inhabitant at other Southern ports were: Newport News,

$240; New Orleans, La., $457; Mobile, Ala., $569; Pensacola, Fla., $886; Savannah, Ga., $957; Wilmington, N. C., $1064; Brunswick, Ga., $1368; Corpus Christi, Tex., $1655; Fernandina, Fla., $2032, and Galveston, Tex., $5458. Tampa, Fla., had the same per capita as Baltimore, which was something greater than the Charleston per capita. The exports in the Sabine district of Texas were $20,378,452, most of which should be credited to Port Arthur, within that district, and, consequently, representing a per capita of about $2600, while much of the exports, $9,182,886 from the Pearl River (Miss.) district, should be credited to Gulfport, with a per capita value of more than $1000.

Of course, there is but the slightest kind of relation essentially betwen the number of inhabitants of a port and the value of merchandise exported. The value of merchandise sent abroad through a port is determined by the character of the merchandise itself and the recognition by transportation companies and commercial interests of the importance, largely from a geographical standpoint, of the location of the ports. One thinks immediately of the large exports of naval stores and phosphate rock from Fernandina, with its population of 3492; of phosphate rock from Tampa, with a population of 37,782; of timber and lumber from Gulfport with its population of 6386, and of cotton at Galveston, constituting about three-quarters of the exports from the city, having less than 40,000 inhabitants, as accounting in part for the selection of such places as the meeting points of railroads and ocean steamers participating in the foreign trade movement. But in a number of the smaller Southern ports there is a tendency to an increase in imports, and, with due preparation, the importance of the Southern ports generally is bound to increase wonderfully with the completion of the Panama Canal opening to them quicker routes to the markets which should be dominated by merchandise shipped from this country. In the past fiscal year the increase in the value of imports at the South, including those at interior points, was at a rate greater than that at all other ports of the country, but the rate of increase in the value of exports at all other ports was greater than at Southern ports. Comparison of imports in 1909 and 1910 is made in the following table:

Imports.

Districts.	1909.	1910.
Alexandria, Va.	.....	$1,200
Baltimore, Md.	$27,418,567	32,381,566
Brunswick, Ga.	46,749	91,438
Charleston, S. C.	3,558,250	5,707,661
Fernandina, Fla.	89,494	72,152
Georgetown, D. C.	657,890	757,369
Jacksonville, Fla.	513,439	695,737
Newport News, Va.	1,518,042	1,648,088
Norf'k-Portsm'th, Va.	1,184,919	2,042,952
Pamlico, N. C.	105,320	55,810
Petersburg, Va.	360,774	204,015
Richmond, Va.	693,822	929,716
St. Augustine, Fla.	5,306	3,924
Savannah, Ga.	2,664,079	4,408,433
Wilmington, N. C.	1,282,724	2,502,750
Galveston, Tex.	2,734,403	2,908,204
Key West, Fla.	1,177,304	1,359,453
Mobile, Ala.	2,881,669	3,809,470
New Orleans, La.	53,570,687	61,188,259
Pearl River, Miss.	82,028	72,143
Pensacola, Fla.	1,479,017	2,123,679
Sabine, Tex.	62,937	121,838
St. Marks, Fla.	17,538	7,798
Tampa, Fla.	4,179,464	3,419,606
Brazos de Sant., Tex.	66,612	117,298
Corpus Christi, Tex.	2,005,975	1,604,606
Paso del Norte, Tex.	3,541,277	4,655,097
Saluria, Tex.	5,248,034	6,302,451
Atlanta, Ga.	138,036	225,749
Chattanooga, Tenn.	46,614	53,235
Knoxville, Tenn.	9,437	11,302
Louisville, Ky.	540,208	685,526
Memphis, Tenn.	310,885	269,956
Nashville, Tenn.	60,968	107,012
Total South	$118,250,468	$140,526,087
All districts	1,475,520,724	1,562,924,251

The increase in the value of imports at Southern ports was from $118,250,468 in 1909 to $140,526,087, or by $22,275,619, equal to 18.8 per cent., and at all other ports from $1,357,270,256 to $1,422,398,164, or by $65,127,908, equal to 4.7 per cent. The increase in the value of exports was from $651,176,553 to $678,714,121, or by $27,537,568, equal to 4.2 per cent., and at all other ports from $1,077,022,692 to $1,185,777,523, or by $108,755,431, equal to 10 per cent. Comparison of exports in 1909 and 1910 is made in the following table:

Exports.

Districts.	1909.	1910.
Baltimore, Md.	$79,496,651	$72,999,110
Beaufort, S. C.	55,700	33,000
Brunswick, Ga.	17,486,173	13,933,368
Charleston, S. C.	8,463,052	7,494,296
Fernandina, Fla.	4,449,622	7,036,910
Georgetown, D. C.	.....	3,974
Georgetown, S. C.	15,297	21,820
Jacksonville, Fla.	2,597,373	2,634,109
Newport News, Va.	6,102,568	4,859,851
Norf'k-Portsm'th, Va.	8,720,988	8,945,316
Richmond, Va.	24,390	29,194
Louisville, Ky.	.....	587
Savannah, Ga.	66,932,973	62,283,108
Wilmington, N. C.	23,310,070	27,404,766
Apalachicola, Fla.	214,836	254,224
Galveston, Tex.	182,446,114	201,875,443
Key West, Fla.	819,833	1,118,354
Mobile, Ala.	27,806,466	29,351,343
New Orleans, La.	146,855,390	155,218,749
Pearl River, Miss.	8,581,471	9,182,886
Pensacola, Fla.	20,971,670	20,379,458
Sabine, Tex.	20,272,367	20,378,452
St. Marks, Fla.	1,112,050	1,010,370
Tampa, Fla.	4,492,498	4,942,738
Brazos de Sant., Tex.	107,512	231,276
Corpus Christi, Tex.	9,955,709	13,737,609
Paso del Norte, Tex.	5,820,201	8,210,208
Saluria, Tex.	4,154,579	5,083,605
Total South	$651,176,553	$678,714,121
All districts	1,728,198,645	1,864,491,644

Of the eighty-eight ports through which exports passed fifty-seven showed increases in 1910 over 1909 and thirty-one decreases. Twenty-eight of these ports are Southern, and of the twenty-eight, only eight showed decreases.

Through the Southern ports, 36 per cent. of the merchandise was exported. But of the toal exports a greater per cent. than that originated in the South. The exports of Southern origin, direct or indirect, included $588,000,000 worth of products of the cotton plant, $70,000,000 of timber and lumber, $35,000,000 of tobacco, $30,000,000 of mineral oils, $22,000,000 of naval stores, $15,000,000 of coal and $8,000,000 of phosphate rock, a total of $768,000,000, while $50,000,000 or $60,000,000 may be added as the South's share in exports of foodstuffs, manufactures of iron and steel, etc., making the total $830,000,000, or nearly 45 per cent. of the total value of exports of merchandise. With expansion of manufactures in the South justified by its possession of the vast stores of iron ore, coal, timber, sulphur and other minerals, and its hundred of millions of acres of fertile lands, the South should in a few years be contributing the greater portion of the merchandise for export from the United States.

HOW READERS HELP.

In renewing subscription to the MANUFACTURERS RECORD Mr. John C. Moore, president American Angle Steel Post Co., Enid, Okla., writes:

We desire in this connection to express our appreciation of the great and beneficent work being done by your fine journal. We think it is tending toward the general benefit not only of the South and the Southwest, but of the country at large, and we are determined to join in and help out in all the ways in our power, which we can do by obtaining additional subscribers for you, by advertising with you and by sending you pertinent matters of news along the lines of your publication

This kind promise of a trinity of activities in co-operation on the part of one reader is a specimen of the encouragements we receive in direct dealings with our subscribers and advertisers. It is an evidence of appreciation of the work we are doing that spurs us to greater efforts to increase the usefulness of the MANUFACTURERS RECORD. Other incentives given us in the past week are in messages from the following:

H. N. Tinker, president of the Tinker Bank & Trust Co., Houston, Tex.:

I do not think that there would be a dissenting voice if a general vote was taken over the entire country that the MANUFACTURERS RECORD was doing more for the South than all the other journals put together.

T. C. Skeen, general manager of the Seminole Land & Lumber Co., St. Louis:

We have read your paper with interest and profit for 12 years, and do not wish to be without it at any time. You are undoubtedly doing more for the South than any other single medium.

E. F. Middleton, Waverly, Ga.:

Am well pleased with the MANUFACTURERS RECORD and would not do without it.

LAWS OF TRADE.

Mr. C. S. Day of C. S. Day & Co., Pocomoke City, Md., in a letter to the MANUFACTURERS RECORD, makes some statements which may be of service to the energetic men of Baltimore planning to develop its trade in industries. He writes:

Notwithstanding the fact that Baltimore in many ways ignores our section, the Eastern Shore of Maryland and Virginia is now becoming the great market garden for the large Eastern cities. They send their agents and buy our products at the railroad station, steamboat wharves, and often the entire crop in the field before maturity, and give us the cash. What does Baltimore do for us? Gives us small, starvation prices; yet they think it our duty to buy their goods at higher prices than we can buy the same in Northern cities.

Here are suggestions worthy of consideration. The writer of the letter is a former Baltimorean and is naturally interested in the welfare of the city, but he seems to be in a position, too, to view the situation from the standpoint of a section that in the days of steamboat traffic, before there was a railroad line giving direct and quick connections to points on the Eastern Shore of Maryland and Virginia with Philadelphia and New York, was naturally a trade territory tributary to Baltimore. It may be that the railroad facilities are responsible for the better offers made to Eastern Shore farmers by representatives of the large Eastern cities; but, be that as it may, it is generally understood that men will be inclined to make their purchases where they make their sales. So it seems to be up to Baltimore to adapt itself to the conditions on the Eastern Shore, and if it wishes to enjoy its due share of Eastern Shore business, both in selling and buying, to devise means whereby it may offer to Eastern Shoremen business at rates at least equal to those offered by other cities. Business is not a matter of sentiment. The Eastern Shore of Maryland cannot be expected in reason to deal with Baltimore because that city is the metropolis of the State if better terms may be had in Philadelphia or New York. It is not so much a question of Baltimore being anxious to sell on the Eastern Shore as of the Eastern Shore finding it profitable to deal in Baltimore.

This law of trade has a wider application. The air is full of plans for the enlargement of American foreign commerce—plans turning upon reciprocity conventions, Government aid in building up a merchant marine, and transcontinental and transatlantic freight and passenger rates. Comparatively little, however, is heard with sufficient emphasis of the policy that must be adopted by American manufacturers if they wish to enjoy better trade abroad. The United States Steel Corporation, with its direct representation in 55 foreign trade centers, has already entered upon that policy, and so have several other great combinations, while Southern cotton manufacturers are inclining more and more the same way, appreciating the advantage of distributing depots or immediate agencies abroad, placing them in a position to become acquainted with the special necessities of their customers. They have learned that to gain foreign markets they must adjust their business customs accordingly, that they cannot compete with the manufacturers of other countries offering better terms of sale or making more desirable goods, and that the safe rule in marketing goods is not to try to make others buy because they, the manufacturers, have goods to sell, but to manufacture goods that the others want to buy.

THREE FIT SOUTHERNERS.

Two Southerners, and they young men, now head important constituents of the United States Steel Corporation. They have reached their position of responsibilty and influence because they are fit men. They are George G. Crawford, president of the Tennessee Coal, Iron & Railroad Co., and Eugene P. Thomas, the new president of the United States Steel Products Co. For each success has been a case of natural selection. Graduating twenty-odd years ago from the Georgia School of Technology, young Crawford went to Birmingham as a chemist and obtained employment with one of the iron companies of that district, where at that time methods were comparatively crude, but where the promise of the great present and the greater future had been established. In a short while, determined to become a master in the iron and steel industry, Mr. Crawford went to Pennsylvania and entered the Edgar Thompson plant of the Carnegies at Braddock, where he became practically proficient and efficient. A stay in Germany, where he gained his doctorate of philosophy, was followed by his entering the service of the great McKeesport plant, of which he became the head, rehabilitating it and making himself at the same time a marked man—marked for recognition in the industry whenever the call should come for the knowledge, experience and industry that were his. The call came when the United States Steel Corporation acquired the Tennessee Coal, Iron & Railroad Co. and planned to spend millions of dollars in the Alabama district, where it owns 700,000,000 tons of iron ore and 2,000,000,000 tons of coal—a greater amount of ore and several times as much coal as the Steel Corporation owned at the time of its formation. Modest as he is gifted, a foremost iron expert and acquainted with the conditions in which he is working, Mr. Crawford has become a dominant factor in the development of the Alabama district. He is president of the Tennessee company because of the reputation gained for himself at Braddock as "The Man Who Knew."

Another "Man Who Knew" is Eugene P. Thomas. Like Mr. Crawford, a native of Georgia, he started, after graduating at the Boys' High School at Atlanta in 1892, at the age of 16 years, as a $5-a-week office boy with William W. Kingston, Southern manager of the Lorain Steel Co. of Ohio. He remained in that position for seven years, part of which time he worked at night as a reporter for the *Constitution*. In 1899—he was only 23 years of age—he was given the important task of establishing in London an office for the sale of the products of the Lorain Steel Co. in for-

eign lands. After six years of success in that capacity, largely of a pioneer character, he was transferred in 1905 to the United States Steel Products Co. in New York, which handles the sales of the constituent companies of the Steel Corporation, and which has now more than 50 agencies in foreign markets. Last year he became assistant to Mr. James A. Farrell, president of the company, and now that Mr. Farrell has become president of the United States Steel Corporation, Mr. Thomas has been chosen his successor in the presidency of the United States Steel Products Co. He is but 35 years old. In 19 years he has gained his present place. And such places as the presidency of the Tennessee Coal, Iron & Railroad Co. and the presidency of the United States Steel Products Co. can be held only by men of splendid capacity—men who are in every way fit. What these two Georgians have done other Southern boys can do.

The careers of Messrs. Gordon and Thomas are fairly illustrative of the results of persistence in a definite course. The election of Mr. Clarence W. Watson to be United States Senator from West Virginia has just at this time focussed attention upon an exponent of the equally valuable quality in success—adaptability—in the person of an associate of Mr. Watson for some years, Mr. Jere H. Wheelwright, of Virginia birth. Trained to the law and practicing for a few years on the Pacific Coast, Mr. Wheelwright, just chosen as the successor of Mr. Watson in the presidency of the Consolidation Coal Co., became in the early nineties the private secretary of United States Senator Camden of West Virginia. That led to his employment subsequently in connection with Senator Camden's coal and railroad properties in West Virginia. As superintendent of one group of mines for Mr. Camden and lessee on his own account of another, Mr. Wheelwright made it his business at the age of 30 years to acquaint himself with everything pertaining to coal mining, even to working as a miner underground. Twelve or thirteen years ago he and Mr. Watson became associated in mining enterprises, and five years later they came prominently to the front in their purchase of the Baltimore & Ohio's holdings in the Consolidation Coal Co. Now that corporation, with which others have been consolidated, holds properties aggregating several hundred thousand acres of coal lands in Maryland, West Virginia, Pennsylvania and Kentucky, and only a few months ago it announced its acquisition of 100,000 acres in the famous Elkhorn coking-coal fields in the last-named State, an undertaking involving plans for the expenditure by the coal company and railroads and others of $15,000,000 or $20,000,000, directly or indirectly. The lawyer has become a master-man in the coal industry of the world.

Mr. Wheelwright has been quoted to the effect that this day of corporation activities is as full of opportunity for brains and energy as were the days of simpler activities. He talks by the book. His success, a clearly written result of the application of brains and energy to the matter at hand, is of the latter-day order. What he says can be done he has done. Others can do.

EXPERTISM.

Who is expert enough to determine that a sociological expert is expert enough to give an expert opinion of value?

A BREATH OF SPRING.

With a wide stretch of country as far south as the Potomac in the clutch of a snowstorm, nearing blizzard intensity at some points, came the news in the early part of this week of the breath of Spring in portions of the South. Around San Antonio, Tex., peach trees were in bloom, fig trees were showing fruit as large as marbles, and timber was rapidly taking on its tint of green. At Muskogee, Okla., men were on the streets in their shirt sleeves and women in white blouses without wraps, while violets bloomed in the open, unprotected ground and yellow jessamine waved its sprays. In the neighborhood of Memphis, Tenn., as well as around Atlanta, fruit buds were swelling. Four inches of snow at Baltimore were preceded 24 hours by a thunderstorm. There, as at points somewhat farther south, the breath of Spring could not be taken as anything but a promise. In fact, there was hardly the wish that it could be otherwise. Too much depends upon a seasonable and lasting breaking of Winter. But everybody rejoices to hear of the peach blossoms and the figs of Texas. Ordinarily that would mean the first real steps, though timid, maybe, of Spring in her annual stroll across the country.

MARYLAND'S BLUE BOOK.

It is called, popularly, "Maryland's Blue Book," this invaluable almanac which *The Sun* of Baltimore places annually in the hands of its readers. But "Maryland" is too limiting an adjective for it. While much of its statistical information bears directly upon the city of Baltimore and the State of Maryland, like information for neighboring States is given and the general facts cover the country and the world. With the greatest care these facts of a final character about politics, manufacturing, farming, ecclesiastical organizations, National and State governments, sports and notable happenings during the year are presented in succinct form, with a comprehensive index, making the publication invaluable to busy men in many walks of life, to merchants, manufacturers, bankers, farmers, politicians, public officials and members of the home circle. The Sun Almanac has grown with *The Sun*. It is now in its thirty-sixth number. In 1878 it had but 48 pages. Nine years ago it had only 176 pages. Its 1911 number has 256 pages, more than five times the number of 1878, more than twice the number of 1902. Event has followed so closely upon event of importance during the past year that the average man has no ability to keep the facts in mind. The 1911 Sun Almanac makes that unnecessary for him and the historian of the past quarter of a century must use the earlier numbers of the almanac to be sure of his facts.

THE COTTON MOVEMENT.

According to the report of Col. Henry G. Hester, the amount of cotton brought into sight in the first five months of the present season was 9,480,585 bales, an increase over the same period last season of 1,437,171 bales. The exports were 5,413,370 bales, an increase of 1,241,716 bales. The takings were, by Northern spinners, 1,468,766 bales, an increase of 4380 bales; by Southern spinners, 1,186,783 bales, a decrease of 15,961 bales. In 156 days of the season up to February 3 the amount brought into sight was 9,594,136 bales, an increase of 1,488,240 bales. Exports were 5,543,659 bales, an increase of 1,312,277 bales. Takings were, by Northern spinners, 1,495,852 bales, a decrease of 5585 bales; by Southern spinners, 1,218,834 bales, a decrease of 7717 bales.

$40,000,000 for Southern School Buildings.

By A. C. Vandever.

[Written for the Manufacturers Record.]

Forty million dollars for school buildings in the South in one year speaks eloquently of the South's wonderful increase in wealth, and of the equally wonderful attention that is being concentrated upon the development of the educational facilities of that section. This amount has been expended or planned for expenditure in 1910 for construction of new buildings and improvements and additions to existing school structures. Such activity along the line of educational building interests in the South and Southwest throughout 1910 is plainly evidenced by a survey of school-building items published during the year by the Construction Department of the Manufacturers Record. These items, which have appeared from day to day in the *Daily Bulletin*, and weekly in the columns of the Manufacturers Record, note that approximately $40,000,000 has been reported as expended or to be expended in such construction. This is shown by the following table, summing up the figures by States:

Statement—According to States, Number of Buildings and Cost—of Larger and More Important Structures Reported.

States.	Number.	Amount.
Alabama	59	$1,447,769
Arkansas	54	1,352,232
District of Columbia	21	1,462,000
Florida	39	1,069,850
Georgia	89	2,202,978
Kentucky	29	909,788
Louisiana	63	1,861,296
Maryland	45	4,968,689
Mississippi	45	987,200
Missouri	49	3,494,706
North Carolina	51	1,370,420
Oklahoma	77	4,384,767
South Carolina	43	1,133,500
Tennessee	67	2,552,415
Texas	273	6,362,320
Virginia	96	2,886,151
West Virginia	28	796,563
Total	1128	$40,252,674

"Advancing rapidly along educational lines" was the statement recently made by Governor G. W. Donaghey of Arkansas in an article on "Arkansas' Potentialities," written for the Manufacturers Record. This portion of the Governor's sketch speaks of Arkansas' University, State Normal School, Agricultural Colleges, School for the Blind, Deaf Mute Institute, Normal School for Negroes, and Reform School—all having State maintenance; also 7819 free schoolhouses. Some of these institutions and structures are of recent growth. Some were erected within the year noted and are included in the above table.

With allowance for variations as to number of schools, especial institutions, etc., what is thus true of Arkansas may be said of every Southern State. Rapid advancement along educational lines is everywhere apparent. New structures are being erected and additions made to existing buildings. The cities of the South are expending hundreds of thousands of dollars on high schools and grammar schools of the finest and most solid architecture, and are furnishing these buildings with the best of modern appliances for heating, lighting, sanitary plumbing and ventilation. These same cities, and the rural districts, are erecting a great number of smaller structures and adding larger facilities to those already built; colleges and universities are being established, enlarged and strengthened, while certain institutions of learning adapted to special needs and opportunities are increasing in number.

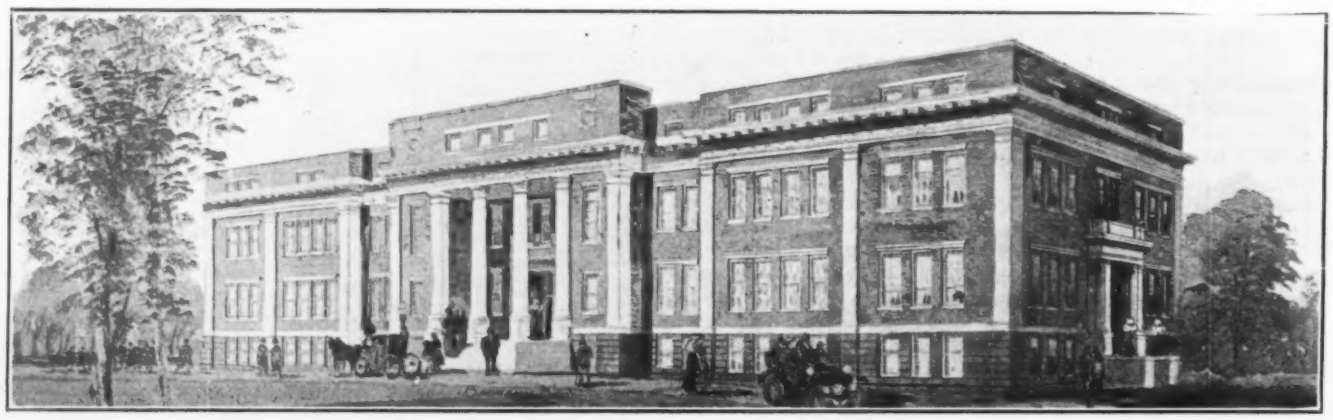
JOHN J. FLOWERS MEMORIAL BUILDING, WOMAN'S COLLEGE OF ALABAMA, MONTGOMERY.

The amount of $40,000,000 for construction of new and enlarged educational buildings in the South and Southwest is an under rather than an over estimate. Of the structures thus noted, in a number of cases information as to exact cost was not supplied. In other instances the contract figure only has been furnished, this, of course, in many cases by no means covering total cost of construction. Then, too, very many small schoolhouses erected during the year have not been reported, while some structures and institutions of

TYPICAL NEW SOUTHERN EDUCATIONAL BUILDINGS.

NEW HIGH SCHOOL BUILDING FOR NORFOLK, VA.

LIBRARY BUILDING, UNIVERSITY OF TEXAS, AUSTIN.



MAIN BUILDING, STATE NORMAL SCHOOL, JOHNSON CITY, TENN.

larger scope are not here included, on account of lack of definite and accurate information, this not yet being available. But enough has been noted to enable one to say of the entire South what the *Observer* of Charlotte, N. C., recently affirmed concerning its own State, that it is "alive to the necessity of education as never before, and what this spirit has accomplished in the past decade is in no way comparable with what it bids fair to work in the years that are ahead."

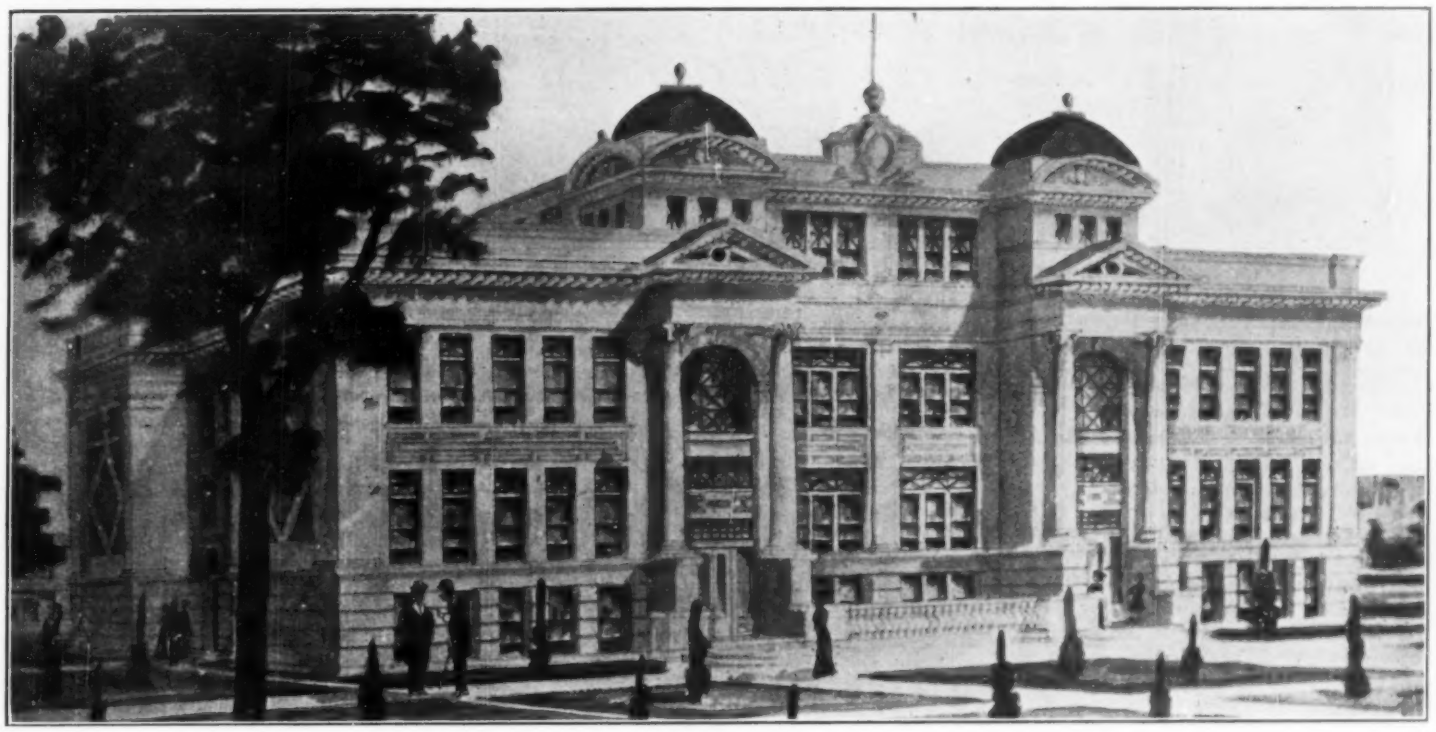
Including small school buildings of every description, for the use of both white and colored children, North Carolina claims to be building one schoolhouse a day. In the brief period since Oklahoma's entrance into Statehood its activity in educational matters has subjected it to the charge of being "educationally mad," this accusation, made some time ago, being surely yet applicable (though possibly it might be better expressed as "educationally sane"), as during the past year several millions of dollars have been expended for educational institutions within the State, the buildings noted being numerous, and diverse in instructional interests. Nearly 300 schools have been noted in Texas, the construction cost amounting to more than $6,000,000, and here again diversity is shown, since the new or improved educational buildings of this great State provide facilities for all classes of students, including the Mexican and the negro, while, in contrast to the smaller schools, is the William M. Rice Institute for advancement of literature, science and art, with its $7,000,000 foundation. Contracts for erection of two large structures for the Rice Institute have been noted awarded during the year.

The new high-school building opened this month at Norfolk, Va., is a striking representation of the well-planned and finely-equipped schools of the type to be built in the future by Southern cities. This fireproof building, erected within 12 months at a cost within its appropriation of $250,000, rests on stone and concrete foundations, is of brick and reinforced concrete construction, with granite and terra-cotta trimmings, and is built to accommodate 1000 pupils. For equipment and furniture $25,000 additional has been appropriated.

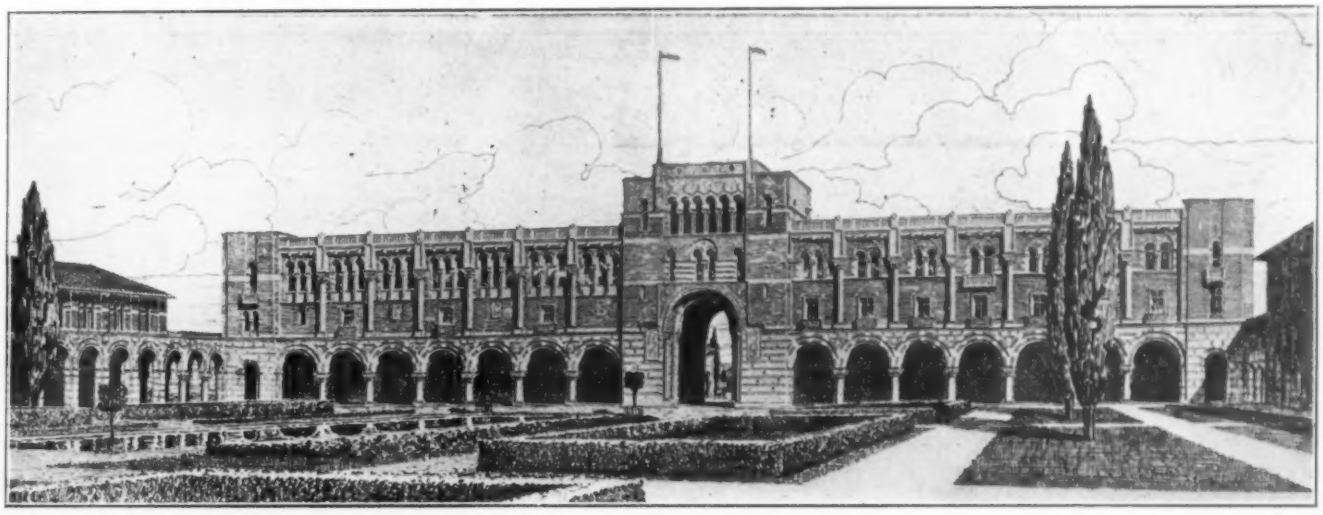
In Louisiana, New Orleans very recently appropriated $450,000 for the erection of large and commodious high-school structures. Contract has been awarded for the erection of one of these, and plans are being prepared for another. Tennessee has awarded contracts for three State Normal Schools costing about $700,000, to be erected at Memphis, Murfreesboro and Johnson City.

Of the buildings noted in our columns, many have been completed and are occupied. Some are progressing in construction. A small number are but planned. In the latter class, the largest illustration is the Johns Hopkins University of Baltimore, in connection with its proposed $2,000,000 extension fund, of which amount over $1,000,000, not all, however, for buildings, has been pledged. The buildings are not yet begun on its fine suburban site, but its landscape engineer is at work, plans are definite, and the prospects are good for a speedy beginning of this construction work.

As a matter of course, new institutions and buildings have been fitted and equipped with the most improved modern appliances for safety and sanitary protection, as well as for instruction in ordi-



PROPOSED SCHOOL AT MEDFORD, OKLA.



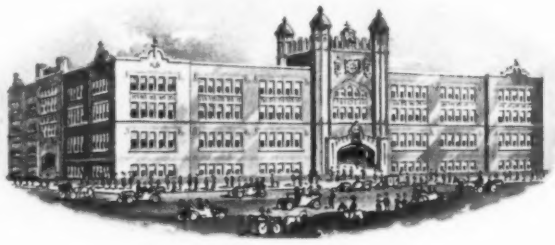
FIRST ACADEMIC BUILDING, WILLIAM M. RICE INSTITUTE, HOUSTON, TEXAS.

HOPKINSVILLE AND CHRISTIAN COUNTY HIGH SCHOOL, KENTUCKY.

DORMITORY, STATE NORMAL SCHOOL, JOHNSON CITY, TENN.

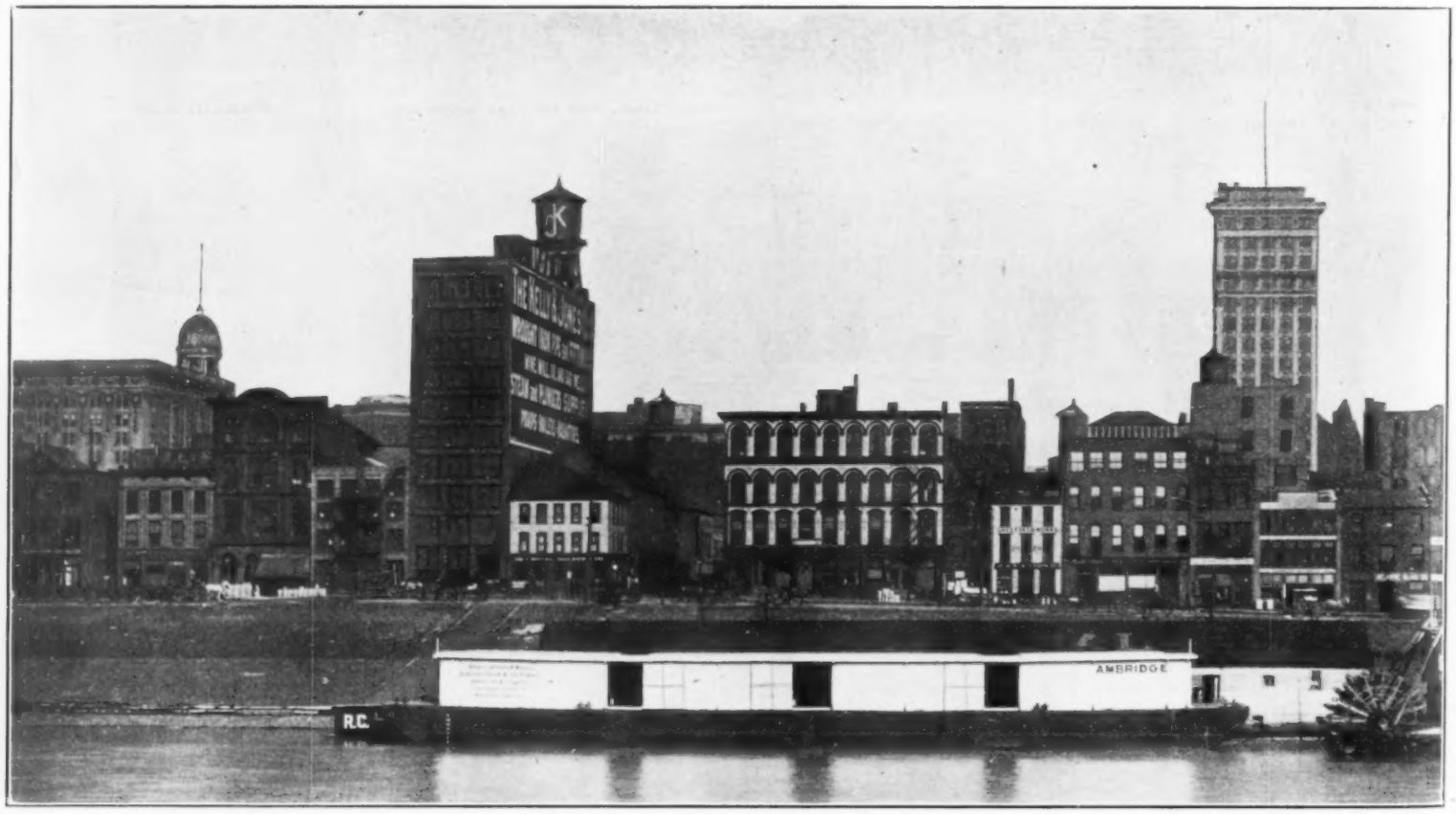
nary or technical school fields, and in this respect the same progressive spirit has been visible in the style of improvements undertaken by established schools. The best heating and ventilating devices, good lighting, sanitary plumbing, including sanitary drinking fountains, fire-escapes—all these have been supplied for the physical protection of the student. The roomy auditorium has become a prominent feature. Manual training departments have been added to old and new institutions. Much machinery has been placed in various technological schools, the list of machinery noted installed in educational buildings varying from steam turbines and gas producers to textile machinery and seismographic apparatus. And in some of the older schools much space has been given to the erection of additional special structures for widely diverse purposes, these buildings including science halls, gymnasiums, libraries, etc.

For the erection and improvement of these many educational buildings a vast amount of constructive material has been needed, and likewise many hundreds of thousands of dollars' worth of equipment and school supplies. Altogether, the summing up of such work noted in the MANUFACTURERS RECORD'S columns during 1910 is a very interesting and pleasing matter. In this intelligent age, and in a country where any boy or girl may win a way to the highest culture afforded by school or university, it is worthy of rejoicing that within one year the MANUFACTURERS RECORD has been able to note the South's reported expenditure of $40,000,000 for new schools completed, progressing or planned. No more striking illustration could be given of the South's truly wonderful advance in wealth and education.



OKLAHOMA CITY HIGH SCHOOL.

STEEL BARGES FOR MISSISSIPPI AND OHIO RIVER TRADE.



This is an illustration of the steel barge "Ambridge," made from a photograph taken at the wharf of the Monongahela River Consolidated Coal & Coke Co., Pittsburg, where the barge was en route to the Rankin Mills of the American Steel & Wire Co., to be loaded with a cargo of nails for New Orleans. Mention was made in the MANUFACTURERS RECORD of June 10, 1910, of the construction of steel barges at the Ambridge plant of the American Bridge Co. of New York. The barge "Ambridge" is the first of the fleet, and has just been completed. These barges are designed to carry the products of the subsidiary companies of the United States Steel Corporation from the Pittsburg district to Cincinnati, Louisville, St Louis, Memphis, Vicksburg, New Orleans and other points on the Mississippi and Ohio rivers. The barge is 200 feet in length over all, 36 feet beam, 11 feet 2 inches depth of hold, and a steel deckhouse 11 feet 6 inches high extends almost the entire length, steel doors and hatch covers being fitted to the deckhouse. Five transverse water-tight bulkheads and one midship longitudinal bulkhead divide the hull into eight cargo compartments, and at same time give adequate transverse and longitudinal strength to the construction. As it is customary to transport mixed cargoes, it was necessary to make the barge of sufficient displacement to carry the bulky and comparatively light material, such as field fencing or other small hardware, and such cargoes may be taken care of in the deck cargo space. Rails too long for the hold will be placed on deck, as this space is well protected and water tight. The draft of the barge at full load displacement is 9 feet, and when light 26 inches. The barges still to be completed will be given names of other river plants in the Pittsburg district, such as "Homestead," "Monessen," "McKeesport," "Donora," etc. It is expected that twenty-five or more barges will be constructed for this fleet, and it is roughly estimated that the annual business of transportation to the various river points from this district by this line may reach 500,000 tons.

COST REDUCTION IN THE IRON INDUSTRY.

Blast Furnace Efficiency Methods, with Special Reference to Southern Conditions.

By JOHN JERMAIN PORTER, Metallurgical Engineer, Cincinnati, O.

[Written for the Manufacturers Record.]

At the present price of pig-iron there is little profit for anyone, and many companies are compelled to choose between the two evils of continuing operations at a loss and shutting down entirely. To executives charged with the responsibility of producing dividends under such circumstances I commend the study of efficiency methods.

Although these methods have sprung into sudden prominence in connection with the recent rate hearings, they are not new, and many excellent examples of their application are to be found in such varied industries as machine shops, foundries, cotton mills, coking plants and general contracting. The iron and mining industries, however, are practically virgin soil, and although their present average efficiency is relatively high, there is much room for improvemnt.

Particularly is this true in the South, where, owing to the more varied raw materials and smaller units of operation, practice is less standardized and opportunities for waste more abundant. I have had fairly good opportunities of studying methods and costs in this section, and am certain that in practically every case it is possible to effect a substantial saving, while in some cases the unnecessary waste is not much under $2 per ton. This may seem a very bold statement, but I believe it to be under rather than over the mark.

The method which I propose as a means of eliminating waste and reducing cost involves three steps:

First, the determination of standards of cost, output and quality for all operations, this necessitating a careful and scientific study of the possibilities of every detail in each operation. Many of these standards will, of course, not be permanently fixed, but will fluctuate in accordance with varying conditions.

Second, a system of efficiency reports whereby the actual performance for each daily, weekly or monthly period is compared with the standard not only as to total efficiency, but also as to the efficiency of each detail.

Third, the raising of actual performances by making such changes as are shown to be necessary by the efficiency reports and by the adoption of task and bonus systems for the stimulation of labor wherever possible.

The determination of standards is by far the most essential as well as the most difficult part of the entire scheme. Consistent progress is impossible unless there is a definite goal toward which to work, and it is evident that this standard should be scientifically chosen so that it is neither so low as to be easy nor so high as to be unattainable.

To those who overestimate the difficulty of setting standards and those who underestimate the benefits to be derived therefrom I recommend the two classics of efficiency literature, Harrington Emerson's "Efficiency as a Basis for Operation and Wages," and Fred W. Taylor's "Shop Management." In view of the success attained in standardizing the thousands of operations of machine and railroad repair shops, it must be admitted that the problem in a straight-tonnage proposition, like a mine or blast furnace, is relatively simple.

The chief difficulty in the latter case is in connection with standards for fuel consumption. In the Southern districts 50 to 60 per cent. of the cost of making iron is fuel; hence this is of peculiar importance. Realizing that the solution of this problem must precede any satisfactory application of efficiency methods to the blast furnace, I have been working along this line for several years. I expect soon to publish a paper explaining in detail the scientific basis of fuel efficiency, but for the present it is sufficient to state that by means of my "fuel equation" I am able to present a substantially accurate itemized statement of the fuel requirements for any given set of conditions and to predict in advance the precise effect of any change in these conditions.

The utility of periodic detailed statements of efficiency will be at once apparent to any executive. Such statements should give the following information:

Total efficiency as to cost of product.

Total efficiency as to output.

Total efficiency as to quality.

Loss of efficiency due to imperfect plant.

Loss of efficiency due to imperfect materials.

Loss of efficiency due to imperfect operation.

The exact points at which improvements should be made.

The forms upon which this information is reported are still in the experimental stage, with the best methods yet to be determined, but the value of the system has been conclusively demonstrated. The two following examples will illustrate the possibilities. (See Tables I and X.)

TABLE I.

Total Blast Furnace Efficiency.

	Standard.	Actual.	Per cent. efficiency.
Cost of manufacturing per ton of iron	$8.82	$10.60	83.2
Output tons per day	203	174	85.7
Quality figure	52.20	49.80	95.5

TABLE X.

Detailed Analysis of Fuel Efficiency.

	Standard.	Actual.	Per cent. efficiency.
Blast temperature, degrees Fahr.	1150	1000	87.0
Moisture in blast, grs. per cu. ft.	5.0	6.0	83.3
Critical temperature	2700	2700	100.0
Heat available in hearth per lb. carbon	1890	1600	84.7
Lbs. of slag per ton of iron	2500	2080	83.3
Per cent. silicon in iron	2.00	1.94	103.1
Heat needed in hearth	1750	2240	78.1
Rate of driving factor	1.0	1.0	100.0
Lbs. carbon needed in hearth per ton iron			85.3
Lbs. flux per ton iron	2200	2600	84.6
Size factor of carbonates	.90	.90	100.0
Fuel factor	.80	.90	88.9
Carbonate loss	190	253	75.1
Reducibility of ore	.50	.50	100.0
Fuel factor	.80	.90	88.9
Ore loss	280	315	88.9
Total carbon loss in shaft	470	568	87.7
Carbon in pig per ton of iron	90	90	100.0
Total carbon needed			82.8
Per cent fixed carbon in coke			92.7
Coke lost as braize	134	178	75.3
Total coke per ton iron			76.6

NOTE.—The percentages in these tables are taken from an actual case, but the figures are of course, changed.

The raising of actual performances to the standard level is largely automatic, once a satisfactory system of efficiency records is in use. This, because, first, the way for improvement is pointed out to foreman and superintendent; second, the desire to make a good showing on the records will naturally cause each department head to put forth every effort to reach the 100 per cent. efficiency. Where desirable, however, a more powerful stimulant may be given by payment of a bonus for the attainment of a certain efficiency.

The importance of reform along the lines which I have indicated can hardly be overestimated. To the stockholder it means increased dividends; to the management, greater success with less worry, and to the South, increased prosperity.

This last statement is not made offhand as a bit of extravagant speech, but is the result of a sincere belief based on careful study. In my judgment, one of the important contributing factors in failures is the varied occurrence and nature of the raw materials. The consequent lack of uniformity in operating conditions infinitely increases the difficulties of management, and it is not strange that success has not been attained in every case. "Standard practice," which is but another name for efficiency methods, would do much to offset this difficulty, and hence the South has far more to gain from its adoption than other districts.

In conclusion, lest it be thought that I am making much ado about nothing, it may be well to enumerate a few of the more notable wastes which are common in Southern practice:

1. Coal washers are not usually operated to best advantage, resulting either in loss of coal or unnecessary ash in coke.

2. There is often a great waste of coke due to combustion within the ovens; also an increase in ash from the same cause.

3. Excessive breakage of coke through poor methods of handling and charging is very general.

4. Imperfectly-washed brown ore.

5. Slatey red ore. In both these cases great improvement could undoubtedly be made by quality efficiency records combined with bonus payments for high efficiency to the foremen concerned.

6. Loss of ore in washer waste is not unusual.

7. Stove heats are often not as high as could be obtained and used.

8. Excessive moisture in the blast. The possibilities of Gayley's dry blast will naturally occur here, but I judge that this great economy is at present too much for the pocketbooks of most Southern producers. It is, however, possible to decrease the moisture somewhat by merely connecting the air tubs with the outside air.

9. Irregularity in operation, due largely to irregular supply of raw materials. This is a common and very serious waste.

10. Inefficiency of labor. A universal complaint generally accepted as unavoidable. However, in other industries scientific methods combined with justice have usually resulted in doubling efficiency; hence, who can say that the same is not possible here?

Finally, I wish to point out that the use of efficiency methods does not necessarily involve any large expenditure, and in this respect stands in strong contrast to other proposed methods of cost reduction. It is really surprising what good work is often done with an antiquated plant properly managed, and it is my belief that such a plant run by efficiency methods is far preferable to a modern one handled in a slip-shod manner.

Motor Trucks at Chicago's Automobile Show.

[Special Correspondence Manufacturers Record.]

Chicago, February 2.

The present Automobile Show is the most successful from every standpoint that has ever been conducted here. There are about 350 cars on exhibition. The Coliseum, one of the largest halls in the United States, is not large enough to hold them all, and it has been necessary to use the First Regiment Armory. When it is understood that nothing but pleasure vehicles and accessories are being exhibited this week, eliminating all motor trucks, it will readily be appreciated that this show is most probably the largest ever held. Next week the entire Coliseum will be given up to the exhibition of motor trucks, motor cycles and accessories. Some novel and interesting types of machines never previously displayed at a public exhibition will be seen among the commercial motor vehicles. One of these that will attract a great deal of interest and appeal directly to farmers and others doing business in rural districts is a combination farm tractor and truck of three tons load capacity. This machine is used for all sorts of work on the farm. It hauls gang plows that turn half a dozen 14-inch furrows at once, pulls two ordinary 14-foot harrows over plowed ground faster than horses can travel, hauls threshing machines into the field and then drives the belt to operate them. It furnishes power to run a circular saw to cut firewood, drags a road scraper, hauls loads of three and a half tons of grain, hay or other farm products to the railroad and carries back loads of machinery, household goods or supplies from the stores. The tractor truck is driven by a 36-horse-power gasoline engine. It is provided with a pulley at the front, from which a belt can be run to operate all kinds of heavy farm machinery, thus making the truck a portable power plant.

Another exhibit of great interest will be a 10-ton truck with an 18-foot platform, one of the largest motor trucks that is built as a regular model.

In remarkable contrast with this monster truck will be two or more makes of small general utility wagons that can be converted in a few minutes from work vehicles to pleasure cars for two or four passengers. One of these is designed especially for use by farmers, and has wagon-type wheels 40 and 42 inches in diameter fitted with narrow solid rubber or cushion tires. It is driven by a two-cylinder opposed horizontal gasoline engine of the air-cooled class, rated at 24 horse-power and hung underneath the body at three suspension points from the main frame. The other of these small convertible wagons is of the regulation automobile type, having a 20-horse-power vertical water-cooled motor under a hood and fitted with four-inch pneumatic tires. It can be used for light delivery work when fitted with an open body or a covered top delivery body, and can be changed into a two-passenger democrat wagon or four-passenger pleasure car.

The smallest and least expensive of all the business motor vehicles will be seen in the motorcycle section of the show, where different manufacturers will have displays. Among these will be found tri-car parcel carriers of 100 to 300 pounds load capacity, suitable for the quick delivery service of laundries, bakeries, men's furnishing stores, small dry goods stores, shoe stores, drug stores, millinery stores, and so on. These machines are about as quick as the motor delivery wagon, and have the great advantage of costing very little to operate and maintain, as they can be run by boys hired at low wages, consume not to exceed one gallon of gasoline to 20 miles, and do not need garage storage and care. They are also very economical in the matter of tires.

One of the latest of these new trucks is of five tons capacity. Although the truck is new to the market, it was not an-

nounced until experimental machines built by the same company had been in actual use by another concern for nearly five years and had proved beyond the peradventure of a doubt that the design was good and the wholesale construction thoroughly efficient and satisfactory. Another surprise at the show this winter is a truck of three to five tons capacity. It too, has been severely tested, and did splendid work in Cleveland during the holiday rush in December.

The Chicago show will be remarkable for the number of delivery wagons and light trucks on exhibition. Several of these are Chicago products, while others are manufactured in nearby places in Illinois, Wisconsin, Michigan, Indiana and Ohio. They have load capacities ranging from 1000 pounds to one ton, and vary greatly in design and construction, some being driven by four-cylinder vertical water-cooled engines and others by two-cylinder horizontal air-cooled motors. Planetary and sliding-gear change-speed mechanisms are both employed. Among these different machines will be found much of interest to the merchant, baggageman and others having need for quick delivery service for articles of moderate weight in comparatively small quantities.

One of the novelties will be an electric hearse that is in the regular service of a Chicago undertaker.

Several manufacturers will display models of motor fire apparatus. There will come from Wisconsin a combination chemical engine and hose wagon, from Detroit a swift, high-powered car equipped with life net and chemical fire extinguishers and fitted with seats for eight firemen. It is also expected that several Eastern companies will show special fire apparatus—perhaps motor pumping engines designed to replace the heavy, slow steamer. There will be a number of different makes of police patrol wagons and motor ambulances, both gasoline and electric, suitable in size and price for large and small cities. An extraordinary amount of interest has developed throughout the country this winter in motor wagons for municipal purposes, and undoubtedly one result of the Chicago show will be a great increase in the number of such machines in different cities during the present season.

From Ohio is to come a "dark horse," so far mentioned only as a tractor. Presumably this is a small gasoline machine designed for pulling plows, harrows and other farm machinery in the field and supplying power to drive stationary machines for grinding, threshing, etc.

Taxicabs in several types will make it worth the while of liverymen and taxicab company owners and managers to visit the show. One manufacturer announces his intention to exhibit cabs for public service fitted with four-cylinder air-cooled engines that cannot freeze in winter. Another will display cabs with two-cycle engines that have no valves or valve-operating mechanism to get out of order and give trouble. Owners and promoters of sightseeing companies and intercity stage lines will find different ideas in construction to meet their varied needs in the many motor stages, omnibuses and sightseeing cars with seats for from a dozen to two dozen passengers.

One of the most unique forms in which the commercial motor vehicle appears, and one that never before has been seen in the West, is an industrial truck designed especially for use in factories and warehouses and at railroad stations and steamship docks for hauling trunks and freight. These are electrically driven, and are made in several styles and sizes, some running on three and others on four wheels.

THE BIRMINGHAM MARKET.

Conditions as to Pig-Iron, Cast-Iron Pipe, Coal and Coke.

[Special Cor. Manufacturers Record.]

Birmingham, Ala., February 6.

The conditions existing in the pig-iron market at the close of the past week were practically the same as at that time one week previous, all parties concerned having adhered very firmly to their several positions in the matter of sales. As a result of the failure to obtain a concession from the $11 per ton Birmingham schedule for prompt shipments and to get accepted at that figure certain brands for shipment over the remainder of the first half, the actual tonnage booked during the week is comparatively small. It cannot be said that the market for first half shipments is not correctly represented by the $11 schedule, but it is certain that such figures will not apply with all manufacturers, while all efforts to obtain spot deliveries at a concession from $11 per ton Birmingham have so far proven futile. In this connection it is noted that two of the smaller producers announce positively their inability to furnish spot deliveries, while a larger concern is practically out of the market for additional shipments during the first quarter. No arrangements whatever are being made for an increase in the active furnace capacity, and shipments from all yards are now at a rate that if continued during the month would effect a substantial reduction in the aggregate stock accumulation. The most authentic figures as to the aggregate of stocks on hand in this State on February 1 place the tonnage at approximately 300,000 tons. Of this total, some 175,000 tons is "free" foundry iron, approximately 65,000 tons "free" basic iron and 60,000 tons of foundry and basic under warrants. This shows an increase of some 5000 tons during the month of January, but a reduction in the production has been effected since February 1 to offset a similar increase during this month. The situation as a whole is considered encouraging, though it has been conceded that much depends upon the extent to which the trade has been covered by engagements for delivery during the first quarter.

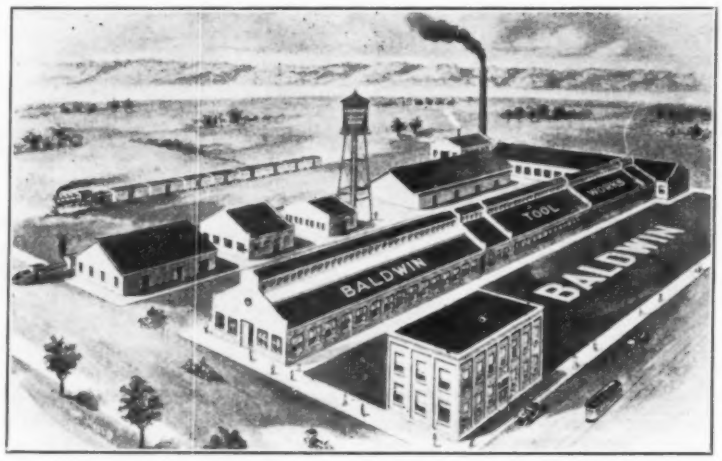
The cast-iron pipe market has been fairly active during the past week, but the tonnage placed consisted largely of comparatively small lots for maintenance purposes. The outlook for new lettings is generally considered good, especially so since the recent sale of municipal bonds is understood to have been satisfactory. Among the contracts actually in sight the requirement of 3000 tons of water pipe for the city of Minneapolis, Minn., and 1500 tons of water pipe for requirement at Sacremento, Cal., are the most important. The requirement of a local gas company is expected at an early date, and a round tonnage of water pipe is known to be pending the satisfactory disposition of certain bonds. The asking price of manufacturers has recently been increased, and we are authorized to quote water pipe as follows per net ton f. o. b. cars here, viz.: Four-inch to six-inch, $20; 8-inch to 12-inch, $19; over 12-inch, average $18, with $1 per ton extra for gaspipe. These prices are probably shaded for large municipal contracts.

The demand for old material has been very light during the past fortnight, with the trade generally disposed to consider bargain lots only. By reason of the desultory nature of the demand the status of prices is hard to determine; however, no change is believed to have been effected. It is noted that the additions to dealers' stocks are being made very conservatively, notwithstanding the fact that offerings are very light. We quote dealers' asking prices as follows per gross ton f. o. b. cars here:

Old iron axles, $14 to $14.50.
Old iron rails, $12 to $12.50.
Old steel axles, $14 to $14.50.
No. 1 railroad wrought, $12 to $12.50.
No. 2 railroad wrought, $9 to $9.50.
No. 1 country, $7.50 to $8.
No. 2 country, $7 to $7.50.
No. 1 machinery, $9.50 to $10.
No. 1 steel, $10 to $10.50.
Tram car wheels, $9 to $9.50.
Standard car wheels, $10 to $10.50.
Light cast and stove plate, $8 to $8.50.

The demand for standard Alabama 72-hour foundry coke continues very good, and prices are being maintained, but owing to the percentage of idle furnace capacity in this immediate district, there is a surplus of 48-hour furnace grades. So far there has been no material curtailment in the output of furnace coke, but it is understood that within a short time at least one large battery of ovens will be put out.

The condition of the coal market is not entirely satisfactory, owing to the surplus caused by the decrease in active blast furnace capacity. There has been practically no decline in prices, however, with straight run of mine from the favorite seams held firmly at from $1.25 to $1.50 per ton at mines.



BALDWIN TOOL WORKS, PARKERSBURG, W. VA.

Completed at a cost of about $300,000; plant includes main building 63x683 feet, with 53x148-foot wing; machine shop, 53x53 feet; pickling shop, 32x53 feet; steel shed, 53x71 feet, and handle shed, 53x202 feet; all of brick and steel construction; said to be the largest shovel plant in the world; will employ more than 400 workmen; company's president is Frank M. Baldwin of the Baldwin Forging & Tool Co., Columbus, O. This new plant is one of those secured during 1910 for Parkersburg through the efforts of the Chamber of Commerce, O. S. Hawkins, secretary, who states that the Baldwin company intends to build another plant of the same extent on a site donated by the Parkersburg Industrial Co.

BACK HOME MOVEMENT.

A Review of Its Origin and Its Progress.

Mr. W. D. Roberts, assistant industrial agent Clinchfield, Carolina & Ohio Railway, writes to the MANUFACTURERS RECORD:

"The back home movement inaugurated by my company last August has grown step by step and with great rapidity until now. In less time than six months it has overspread all the country east of the Mississippi and south of the Ohio and Potomac rivers.

"Of course, the back home movement is an immigration plan, pure and simple. In almost all we have said about it that fact has been emphasized. Our terriory and that of most other Southern railroads is sparsely populated, very meagerly, indeed, as compared to the Northern States. Therefore, like the Western railroads, we want more people. To get them it was apparent, from facts shown by the 1910 census, that something different from former methods was necessary. The back home plan is different, because it has a direct, personal interest for the people themselves—the rank and file of people. When we have sent the call to a million former Southerners there will be a million people all talking about the South at one time, and it is probable that at least a million other people will hear something favorable to the South. Moreover, the sending of a million special invitations, with literature, will be mighty apt to be made known to at east ten million newspaper readers in the United States. Some of them might be thus led to inquire what changes have occurred in States which can so confidently call upon their own people to leave the West and come back home. Indeed, we have already had letters making thit inquiry."

Pan-American Conference.

Among the speakers announced for the meeting at Washington, D. C., February 13-18 of the Pan-American Commercial Conference are President Taft, Secretary Knox, Mr. James A. Farrell, president of the United States Steel Corporation; Senator Root, Representative Champ Clark, O. P. Austin, chief of the bureau of statistics of the Department of Commerce and Labor; Charles M. Pepper, Phaner J. Eder, Prof. Hiram Bingham, Prof. David Kinley, Prof. Paul S. Reinsch, W. A. G. Clark, Henry L. Janes, Mack H. Davis, Bernard N. Baker, Lewis Nixon, F. B. Loomis, Forbes Lindsay and James W. Porch. The arrangements for the conference are in the hands of Director-General Barrett of the Pan-American Union.

Industries Suggested.

Murphy, N. C., February 4.

Editor Manufacturers Record:

Industrial enterprises are wanted in Murphy. Cheap power, labor and all raw materials abound, together with the material aid given by our people. This is an ideal spot for chair factory, cotton mill, wagon factory, plow factory, handle factory, iron foundry and machine shops, saw and planing mill, sash, door and blind factory, land development company, steam laundry, brick plant, iron and smelting furnace, ice and cold-storage plant.

G. A. BROWNING.

Steel Rail Orders.

[Special Dispatch to Manufacturers Record.]

New York, February 8.

Rail orders this week were: Tennessee Company sold 1500 tons to the Kilby Frog & Switch Co. Illinois Company has orders for 30,000 tons for Central and Southern delivery.

RAILROADS

[A complete record of all new railroad building in the South will be found in the Construction Department.]

OPEN UP RICH ORE LANDS.

Greeneville & Nolichuckey Railroad Will Soon Take Steps for Construction.

John Heilman writes from Greeneville, Tenn., that the Greeneville & Nolichuckey Railroad Co., of which he is president, proposes to build a line 30 miles long from Greeneville to Walton, Tenn., via Runnel Gap. A bridge 700 feet long over the Nolichuckey River will be required. The route lies through a farming country rich in timber and iron ore. Bids for construction and equipment will be opened February 15. Connection will be made with the Southern Railway.

Mr. Heilman says that the line should be very profitable, as it will pass through 10,000 acres of iron-ore land, of which 150 acres has been pitted to various depths, and at least three mining engineers of standard reputation have reported that on this area so examined there is in sight above water level more than 75,000,000 tons of iron ore assaying a high percentage of metallic ore, with an average of 2 per cent. of manganese and a small percentage of silica and sulphur.

The officers of the company are John Heilman, president; J. G. Reading, vice-president; Joseph B. Heilman, secretary and treasurer; Walter R. Heilman, general manager; H. B. Emerson, chief engineer. Others interested are B. F. Layberger and W. W. Layberger.

NEW ORLEANS SOUTHERN.

Line Changes Hands and Rumors of Extensions Are Circulated.

Reports from New Orleans say that the New Orleans Southern Railroad, formerly known as the New Orleans, Fort Jackson & Grand Isle, has changed owners, and that Charles D. Warren, president of the Traders' Bank, Toronto, Canada, has been elected president. He is alleged to represent a Canadian syndicate. The deal was agreed upon several weeks ago, it is said, after negotiations which began in November. Mr. Warren recently went to New Orleans, and it is rumored that extensive construction work is to be done on the line. He, however, has declined to make any statement beyond admitting that he has succeeded Arthur Kennedy as president.

It is said that the work in contemplation will include the long-discussed extension to Grand Isle; new equipment will also be purchased. The line at present runs from Algiers, opposite New Orleans, on the Mississippi, to Buras, La., 60 miles.

A later report says that charter has been filed for the New Orleans Southern & Grand Isle Railway Co. as a result of the change of ownership. Capital stock is $10,000,000. The charter authorizes the company to operate standard-gauge railroads, with wharves, bridges and freight elevators. It will run through the parishes of Orleans, Jefferson and Plaquemines, and extend to a point near Grand Isle. Charles D. Warren, Otto T. Maier and E. Howard McCaleb are the directors.

GROWING ELECTRIC LINE.

Fairmont & Clarksburg Extending Its Tracks by Purchase and Building.

An official letter from the headquarters of the Fairmont & Clarksburg Traction Co., Fairmont, W. Va., announces the closing of a deal by which the Fairmont & Mannington Railroad has been acquired, the latter being an up-to-date interurban electric railway 17 miles long connecting Fairmont and Mannington, W. Va. It is of standard construction, the track being laid with 80-pound rails. It has six double-truck interurban cars 45 feet long, one double-truck freight car, also 45 feet long, and a modern "two 300-kilowatt rotary converter substation." The deal consisted in the purchase of the stock and bonds of the Fairmont & Mannington Company, which owns the Mannington Light Co. The stock is $1,000,000 and the bonds $600,000.

The Fairmont & Clarksburg Traction Co. has 51 miles of track in operation, which, with the 22 miles nearly completed to Fairview and Mt. Clare, and the Fairmont & Mannington purchase, will make an electric road of 90 miles, with 36 cars in operation. Active control of the newly-acquired road was immediately assumed. James O. Watson is general manager of the lines.

B. & O. MAY GET IT.

Trip of Inspection Over the Coal & Coke Railway in West Virginia.

Dispatches from Charleston, W. Va., say that negotiations are in progress for the acquisition of the Coal & Coke Railway by the Baltimore & Ohio Railroad. The Coal & Coke Railway is owned by ex-Senator Henry G. Davis of Elkins, W. Va., and associates. It is 175 miles long from Elkins to Charleston, W. Va., and connects with the Baltimore & Ohio at Burnsville, W. Va., and other points. The road has two branches, one of six and one-half miles to Sutton and the other of 14 miles to Belington and Coalton. It would afford the Baltimore & Ohio entrance to Charleston and Elkins, which it does not now have. Daniel Willard, president, and George M. Shriver, second vice-president, of the Baltimore & Ohio, it is stated, have made a trip over the line, accompanied by officers of the Coal & Coke road. The trip included not only an investigation of the line, but visits to coal mines on the route.

New Equipment, Rails, Etc.

The Southern Railway, says a report from Louisville, Ky., has ordered through its office there about 25,000 tons of rails from the Tennessee Coal & Iron Co., Birmingham, Ala.

The Rock Island system, says a market report, has ordered 10,000 tons of rails from the Illinois Steel Co., Chicago.

The Harriman lines, which, as recently reported, ordered 196 locomotives from the Baldwin Locomotive Works, Philadelphia, has specified them as follows: 101 Mikado type for freight service, 10 Mikado type for passenger service, 8 consolidation, 6 10-wheelers, 2 Pacific type, 5 eight-wheelers, 12 consolidation Mallet compound, 12 Mogul Mallet compound and 40 six-wheel switchers.

The Norfolk & Western Railway, according to a market report, has ordered 12,000 tons of steel from the American Bridge Co., Pittsburg, Pa., for its bridge over the Ohio River at Kenova, W. Va.

The Kanawha & Michigan Railway is reported in the market for passenger train cars.

The Pennsylvania lines west, it is reported, have ordered 500 more steel coal cars from the American Car & Foundry Co., St. Louis.

The St. Louis & Southwestern Railway, it is reported, has placed a contract for 2000 box cars with the American Car & Foundry Co.

The Louisville & Nashville Railway, says a dispatch, has ordered 100 ballast cars from the Rodger Ballast Car Co., Chicago.

The Chesapeake & Ohio Railway, according to a market report, is having 200 flat cars built by the American Car & Foundry Co.

The Pennsylvania Railroad, it is said, will build 1000 gondola cars at its own shops, Altoona, Pa.

The Texas Traction Co., Dallas, Tex., has authorized the purchase of some new equipment, including cars for the regular service and some high-speed cars for interurban lines.

The Morgantown & Southern Railway, Morgantown, W. Va., will, it is said, purchase two passenger cars.

The Goldsboro Traction Co., Goldsboro, N. C., is reported in the market for two cars.

The Central of Georgia Railway is reported to have ordered 300 box cars to be built at its own shops, Macon, Ga.

The Enid (Okla.) Interurban Company, says a market report, will buy three storage-battery cars.

The City & Suburban Railway at Brunswick, Ga., it is reported, will order a gasoline motor car.

The Citizens' Railway of Waco, Tex., is reported getting prices on six semi-convertible cars.

The Norfolk & Portsmouth Traction Co. of Portsmouth, Va., is reported to have placed contract for several pay-as-you-enter cars. There may be 15 of them.

The Shawnee Electric Railway of Shawnee, Okla., it is reported, will award contract for eight interurban cars and a baggage car.

The Corpus Christi Street Railway, Corpus Christi, Tex., is reported about to purchase four semi-convertible cars.

New Railroads Projected.

Among the new railroad enterprises recently reported in the South are the following:

Montgomery & Chattanooga Railroad Co., capital $50,000, incorporated in Alabama to build a line from Montgomery to Anniston via Central, Alexander City and other points. It will develop some valuable timber lands between the Tallapoosa River and Alexander City. The section of 52 miles between Montgomery and the last-named point will first be built. Work will be started soon. Benjamin Russell of Alexander City is president; J. C. Haas of Montgomery, vice-president, and W. T. Roberts, also of the latter, secretary and treasurer. The other incorporator is M. C. Stokes.

Rowlesburg & Southern Railroad Co., chartered in West Virginia with $50,000 capital to build a line from Rowlesburg to Parsons, about 20 or 25 miles. The incorporators are W. H. Gillespie, G. C. Stitzinger, A. E. Stitzinger, E. E. Stitzinger and J. E. Stitzinger, all of New Castle, Pa.

Poor Robin Spring Railway Co., organized in Georgia to build line from Abbeville to Poor Robin Spring, about two miles. It will be narrow gauge and operated by steam. The directors include N. M. Patten, president; A. J. Boney, vice-president; W. A. Cherry, treasurer; M. C. Paxson, secretary; W. L. Harrell, J. L. Bankston and J. R. Monroe.

Washington & Barcroft Traction & Power Co. chartered in Virginia to build a line seven miles long from the south end of the Government bridge over the Potomac to Bailey's Cross-Roads, in Fairfax county; headquarters at Barcroft, Va.; capital $5000 to $25,000. F. C. Handy is president; W. W. Wright, vice-president, both at Barcroft; C. P. Munson, secretary, at Arlington, Va.

Chairman Yoakum's Recent Address.

The address on "Railroads and the Cost of Living," delivered by B. F. Yoakum, chairman of the St. Louis & San Francisco Railroad Co., recently at Lincoln, Neb., before a meeting of agricultural and kindred associations, has been published in pamphlet form, and will well repay the reader for the time devoted to its perusal. He points out that the same amount of money will buy more transportation now than it would a dozen years ago, and that therefore the railroads have nothing to do with the increased cost of things necessary to life. He endeavored to show the farmers how they could reduce their expenses, increase their production and make more money, while they would benefit the people generally by enabling them to purchase farm products at lower prices. He said that too many retail middlemen are to the farmer what the drones are to the bees. He spoke for good relations always between the farmers and the railroads, and for a disregard of any but safe and steady political leaders. The address is full of food for thought by all who are interested in study of the general welfare.

Gulf, Velasco & Northern.

John S. Bartlett, secretary of the Gulf, Velasco & Northern Railroad Co., a new enterprise, Columbia, Tex., sends information concerning the plan thus:

The projected line is 92 miles long from Gulf to Sealy, Tex., via Brazoria, West Columbia, Damon, Midville and Rosenberg. The route is through very level country, and there will be no bridge work excepting two trestles, one of about 225 feet, including approaches, between Rosenberg and Damon, and the other of 50 or 60 feet near Gulf. Connection will be made with the St. Louis, Brownsville & Mexico Railway at Brazoria, with the Southern Pacific at Rosenberg and with the Missouri, Kansas & Texas at Sealy. It is not yet decided when bids for construction will be received, but that will be soon.

Those interested are D. A. Barr, president; C. Davis, first vice-president, both of Damon, Tex.; A. E. Bates, second vice-president, Brazoria, Tex.; S. L. Crockard, treasurer, and John S. Bartlett, secretary, both of Columbia, Tex. C. S. Edwards will probably be elected general manager.

San Antonio to the Rio Grande.

The plans for the railroad projected from San Antonio southward to the vicinity of Brownsville, Tex., are outlined in the subscription form for the San Antonio & Mexican Construction Co., which is the title of the corporation that it is intended to organize to build the line. The road will run from a connection with the International & Great Northern Railroad or the Galveston, Harrisburg & San Antonio Railway—the latter of the Southern Pacific system—at San Antonio via Jourdanton, Crowther and Oakville to a point on the Rio Grande between Roma and Brownsville. The capital, as heretofore reported, is to be $500,000. The road is to be of standard construction, with new rails not less than 70 pounds to the yard, and with 3160 ties per mile of track. Steel bridges are required over four rivers. The stockholders' committee includes George W. Brackenridge, William Cassin, Edwin Chamberlain, Fred W. Cook, Leroy G. Denman, T. C. Frost and others.

New Head for Clinchfield Road.

It is announced from the offices of the Carolina, Clinchfield & Ohio Railway, 24 Broad street, New York, that Mark W. Potter, chairman of the board, has also been elected president of the road, succeeding George L. Carter, resigned. It appears, however, that Mr. Carter continues as one of the directors, as will be seen by the following list, of which the first seven names are those of new members: Thomas F. Ryan, Frank A. Van-

derlip, John B. Dennis, C. Ledyard Blair, Edward D. Adams, W. K. Whigham, Robert C. Ream, Norman B. Ream, George L. Carter, Isaac T. Mann, William M. Ritter, Wallace B. Donham, Walter T. Rosen, E. F. Watson and Mark W. Potter.

A press dispatch from Bristol, Tenn., says that Mr. Carter, who promoted and built the road, still retains his interest in the property, but quotes him as saying that his other business affairs are now demanding his attention.

Work on the Kansas City Southern.

The Kansas City Southern Railroad, it is announced, has sold $5,000,000 of 5 per cent. refunding and improvement bonds to Ladenburg, Thalmann & Co. of New York, and an official statement says that the object is to continue improvements. The money realized from the sale will be used to remove, rearrange and enlarge a division terminal, further reduction of grades, ballasting, the improvement of track and bridges and the purchase of additional equipment and heavier rail. The equipment purchase will include passenger and freight cars, passenger and freight locomotives, including Mallet engines for the mountain division. When the reduction of grades is completed all grades excepting the mountain division will be reduced to five-tenths of 1 per cent. This will put the road in a high state of physical development, and in a position to handle economically its growing traffic.

Big Interurban Plan Advancing.

The Piedmont & Northern Railway Co. is to be incorporated by a bill which has been introduced in the Legislature of South Carolina to carry out the plans of J. B. and B. N. Duke and others to build a great interurban electric railroad to connect several cotton-mill centers in the Carolinas, including Charlotte, Greenville, Spartanburg and other cities. The capital is to be $5,000,000. The route lies through 14 counties in South Carolina alone as declared in the bill, which is to extend the line proposed by the original charter for the Greenville, Spartanburg & Anderson Railway Co. Besides the Messrs. Duke, who are, respectively, of Somerville, N. J., and New York city, the incorporators include Samuel McRoberts of New York, W. S. Lee of Charlotte, N. C.; Elnson A. Smyth and Lewis W. Parker of Greenville, S. C.

New Iberia to Lafayette, La.

F. W. Crosby of New Orleans, according to a report from that city, will, with associates in the Southwestern Power & Traction Co., soon proceed to build its proposed 75-mile interurban electric railway from New Iberia to Lafayette, La. The company has a capitalization of $1,500,000, and it is said that arrangements have been completed for construction. Mr. Crosby is president. Survey will begin within six weeks. It is contemplated to build the power plant at New Iberia, with substations at other points. In addition to operating the railroad, these plants will probably sell power to factories. Besides the main line, it is contemplated to build from Morgan City to Jeanerette, La.

High Bridge Over the Kentucky.

The Southern Railway announces that the new bridge over the Kentucky River on the Queen & Crescent Route is just being completed. It is 31 feet higher than the old structure, which has long enjoyed the repute of being one of the highest bridges in the world, and it is built upon the same foundations. Besides being constructed for double track, the new structure is of greater carrying capacity, so that heavier locomotives can be used over it. Its increased height also makes a better grade on the line. It is built of steel on the cantilever principle, and rests on stone piers. It is 1230 feet long, and the track is 308 feet above the stream.

Bryan-Brazos Valley.

The Bryan-Brazos Valley Railroad Co., writes one of the directors from Bryan, Tex., proposes to build 26 miles of line from Bryan to a point near Clay. Route will be west six miles and south 20 miles. A bridge about 400 feet long will be required over the Big Brazos River. The route is through level country. Connection will be made with the International & Great Northern Railroad. It is not yet determined when bids will be received. The directors include W. E. Saunders, president; John K. Parker, vice-president and general manager; A. W. Wilkerson, treasurer; J. W. Doremus, secretary, and J. Allen Myers.

Contemplates Monorail Subways.

L. H. Wieman of Baltimore, it is announced, has been elected president of the American Monorail Co., operating the Tunis patents, and it is contemplated to build monorail lines in subways at Washington, D. C., to connect various Government departments. To do this a bill will have to be passed by Congress. Henry W. Williams has been elected vice-president, and R. Guy Cochran, secretary. The board of directors includes the officers and Messrs. Frederick Henkelman, A. J. Dietrich, B. L. Burrows, E. L. Tunis, Thomas J. Waters, Joseph B. Seth, Howard H. Tunis and Philip Lawrence. The authorized capital is $25,000,000.

A Belt Line Recommended.

Oscar F. Lackey, president of the Harbor Board and harbor engineer at Baltimore, proposes that a belt line railroad shall be built and owned by the city along the entire water front. Such a line would afford direct railroad connections to all warehouses and factories situated on the harbor, so that cars could be received from and sent to any of the railroads entering the city. This plan, however, is only in the form of a recommendation that will be presented to the Mayor and City Council.

Some Electric Line Improvements.

A dispatch from Lexington, Ky., says that the new financial plan of the Lexington & Interurban Railways, under which $1,000,000 will be raised, provides for the building of a $500,000 power plant at Lexington, the erection of passenger and freight stations in other towns, the reconstruction of several lines and some additions to the equipment. The headquarters of the company are at Lexington.

Winston-Salem to Floyd.

The North Carolina Traction Co., according to a report quoting an officer, has let contract to the Propst Contracting Co., Charlotte, N. C., to build its proposed line from Winston-Salem to Rural Hall and Lawsonville, N. C., and thence to Floyd, Va., altogether about 92 miles. A steel bridge 600 feet long and several trestles will be required; maximum grade, 2 per cent.; maximum curve, 12 degrees. A. M. Clarke is president and H. P. MacKnight is chief engineer at Southern Pines, N. C.

Several Extensions in View.

The Oklahoma Railway Co. of Oklahoma City is to hold a stockholders' meeting on February 24 to increase the capital stock from $3,000,000 to $15,000,000 for the purpose, it is said, of building lines out of Oklahoma City to Guthrie, El Reno, Shawnee, Norman and other points.

Railroad Notes.

The Northern Central Railway Co. gives notice that its annual meeting will be held at noon February 23 at its office, corner of Calvert and Center streets, Baltimore, when the annual report will be presented and 12 directors will be elected for the year.

Dispatches from Galveston say that F. G. Pettibone, vice-president and general manager of the Gulf, Colorado & Santa Fe Railway, confirms the report that it has made arrangements to enter Waco over the line of the St. Louis Southwestern Railway. Connection is made at McGregor, Tex.

An officer of the Southwestern Railway, Henrietta, Tex., writes that the proposed extension is from Archer City, the present terminus, southwest for 40 miles. Nothing definite at present. Construction will not be undertaken within 60 or 90 days. Henry J. Scott is president; D. T. Bomar, vice-president; W. H. Featherston, treasurer, and A. C. Parks, general manager.

Cotton Mill Men Confer.

Representatives of cotton growers and cotton manufacturers of the country met in Washington last week in a get-together spirit. Their meeting was held behind closed doors, and after an address by Mr. Franklin W. Hobbs, president of the National Association of Cotton Manufacturers, there was discussion of the questions of standard sales notes, guaranteed warehouse certificates and demurrage charges. In the matter of distribution of goods some speakers were definitely in favor of direct sales by the mills. It was voted to endorse the Stevens bill for negotiable bills of lading. The standard grades of cotton established by the Department of Agriculture were approved, and, as these have already been established by the leading cotton exchanges of the South, it was requested that the New York Cotton Exchange also adopt them. It was decided to request that the Department of Agriculture prepare standard samples for measuring the cotton staple. The Weeks Appalachian Forest Reserve bill was endorsed. The consensus of opinion at the meeting was that, while this conference did not and could not pass any votes of a binding nature, yet that the votes would serve as guidance to the officers of the organizations represented, and there is hope that the policy as to cotton manufacturing through the various organizations may be unified.

For $750,000 of Bonds.

Board of Trade,

Winston-Salem, N. C., February 2.

Editor Manufacturers Record:

A bill will be introduced in the next few days in the General Assembly of North Carolina permitting Forsyth county to vote $750,000 bonds for good road construction. Good roads meetings were held at East Bend, in Yadkin county, on January 14, with the result that a unanimous rising vote was taken to build macadam roads from Yadkinville to East Bend to the Forsyth county line, and on Friday, January 27 at Boonville, Yadkin county, to take preliminary steps looking toward a bond issue in Boonville township.

J. S. KUYKENDALL,
Secretary.

Five capitalists of Iowa have been studying lands in the neighborhood of Demopolis, Ala.

It is estimated that the Florida citrus crop will be 3,750,000 boxes this year.

GOOD ROADS

WEEK'S HIGHWAY RECORD.

Progress in Southern Road and Street Improvement.

[Full details of highway undertakings are given in the Construction Department.]

Bonds to Be Voted.

Booneville, N. C.—Booneville township contemplates issuing bonds for road improvements.

Jonesboro, Tenn.—This city will petition Legislature for authority to issue $10,000 of bonds for street improvements.

Lyons, Ga.—Toombs county will vote February 8 on issuing $200,000 of bonds for road improvements.

Mountain View, Tenn.—This town will petition Legislature for authority to issue $10,000 of bonds for street improvements.

Paris, Tex.—This city will vote March 7 on issuing $50,000 of bonds for paving.

San Marcos, Tex.—This city will vote in April on issuing street-improvement bonds to the amount of $4000.

Winston-Salem, N. C.—Forsyth county will petition Legislature for authority to vote on issuing $750,000 of bonds for road construction.

Contracts Awarded.

Jennings, La.—This city has awarded contract for construction of 10 miles of sidewalk and for curbing.

San Antonio, Tex. — Los Angeles Heights Improvement Co. has awarded contract for construction of 1,000,000 feet of cement sidewalks.

Tulsa, Okla.—This city has awarded a contract for paving in eight paving districts.

Contracts to Be Awarded.

Annapolis, Md.—This city will pave four streets with tar or asphalt macadam.

Baltimore, Md.—State Roads Commission will expend $1,500,000 during 1911 for road improvements.

Dallas, Tex.—This city will open bids on February 13 for paving Griffin and Houston streets.

Dallas, Tex.—This city has ordered one mile of paving on Bryan street.

Memphis, Tenn.—This city opened bids on February 7 for 10,000 yards of excavation, 10,133 square yards of tar macadam paving and 7600 linear feet of 36-inch concrete curb and gutter.

Memphis, Tenn.—This city will pave Bellevue boulevard with tar macadam at an estimated cost of $15,223.

Muskogee, Okla.—This city opened bids on February 6 for sheet asphalt paving, asphalt macadam, oil macadam on alleys, etc.

Newbern, N. C.—This city will pave streets with brick, asphalt macadam or bitulithic.

Norfolk, Va.—City Council has recommended an appropriation of $137,000 for paving Church street.

San Antonio, Tex.—Bexar county will receive bids until February 10 for graveling two and one-half miles of road.

Yadkinville, N. C.—Yadkin county contemplates construction of macadam road from Yadkinville to East Bend.

Stamford, Tex.—This city will pave streets.

Wytheville, Va.—This city contemplates street improvements.

A dispatch from Houston, Tex., says that the Texas Steamship & Banana Co. of Houston has been organized to operate steamers between Houston and the Spanish Honduras, beginning March 1 on a weekly schedule. The first steamer will be the Mercator of 1083 tons, and others have been engaged. F. K. Keogh, formerly of New York, will be general manager.

TEXTILES

[A complete record of new textile enterprises in the South will be found in the Construction Department.]

Correspondence relating to textile matters, especially to the cotton-mill interests of the South, and items of news about new mills or enlargements, special contracts for goods, market conditions, etc., are invited by the MANUFACTURERS RECORD. We shall be glad to have such matters at all times, and also to have any general discussion relating to cotton matters.

Castle Cotton Mills.

Two weeks ago the MANUFACTURERS RECORD outlined the organization of the Castle Cotton Mills of Monticello, Ga., with Wm. T. Lang as president and general manager, the company being capitalized at $1,000,000 and proposing to build a plant of 50,000 spinning spindles, 5000 twister spindles, 1200 looms, etc., driven by 5000 electrical horse-power. Electricity for this plant will be transmitted from the water-power development of the Central Georgia Power Co. of Macon, and this company's general manager, J. J. Cagney, sends the MANUFACTURERS RECORD an interesting statement on the use of electricity in the mill. Mr. Cagney writes in part as follows:

"The Castle Cotton Mills, Ltd., is capitalized at $1,000,000, with a further preferred stock issue as working capital of $250,000. The material manufactured will be for the domestic converting trade. The building will be of reinforced concrete, and consequently fireproof throughout. A mill settlement to be called 'Castle' is to be established on a very comprehensive scheme. The employes' dwellings are to be of brick and concrete facing, equipped with electric lights, water and sewerage. A fire department is to be organized, and it is quite likely that a textile school will be established for the benefit of the mill employes and their children.

"Each individual machine in the mill is to be equipped as far as possible with a separate motor, which will be designed to operate at speeds corresponding exactly to the speeds at which the different machines are intended to operate. In this way all frictional losses suffered by old mills in shafting, belting, pulleys, etc., will be entirely eliminated. These frictional losses in mills operated in the old mechanical way vary anywhere from 25 to 50 per cent. By the same arrangement this new mill expects to derive a greater output of finished goods per employe or for a given time, it being now a well-known fact that by the direct application of electric power a constant speed is attained which is not possible in the steam-driven mill. This more constant speed enjoyed with electric power service eliminates breakage of yarns, which are experienced by the surging and fluctuating speeds in steam-driven mills, and giving practically an increase of 7 per cent. in production.

"As a result of the foregoing arrangement, the machinery of the mill will be located with reference to procuring natural light and perfect ventilation for employes and without reference to the location of shafting, as in the case of the steam-driven mill. In this way the new mill hopes to provide surroundings for its employes such as to permit them to accomplish a greater amount of work and better work in a given time than where natural light and ventilation are impaired by masses of shafting, belting, etc.

"It is also quite conceivable that a mill constructed along these lines and providing the accommodations mentioned above for its employes will have no trouble in retaining competent, intelligent help.

"The electricity which we will supply will be transmitted at a distance of nine miles from our 24,000-horse-power hydro-electric development on the Ocmulgee River at a pressure of 66,000 volts and reduced at the mill transformer station to such pressure as required for operating, and which we assume will be 550 volts. It is estimated by the promoters of this mill and their engineers that the hydro-electric power which we will supply them will not cost more than 50 per cent. of that which they could hope to develop power from steam, after taking into consideration the numerous items entering into the cost of steam-developed power.

"By using power from our mains, the company will also be able to divert to the equipment of the mill with profit-bearing machinery many thousands of dollars which would otherwise be required in a steam plant; for, as is well known, the original investment where electric power is used is about 25 per cent. of the investment for steam-generating equipment.

"This new mill will derive the further benefit of having power from our mains available during 24 hours in each day in the year for lighting and other purposes.

"It is expected that this large new mill is the forerunner of several other large enterprises which will be located in the vicinity of our Ocmulgee River development."

The Westervelt Mills.

The Westervelt Mills of Greenville, S. C., will open bids on February 10 for the erection of the company's buildings. These structures will all be of brick, with steel beams supporting the floors, wooden beams for the roof supports, wooden roofing and floors, the latter covered with maple tops. Dimensions as follows: Spinning and carding department 130x423.6 feet, two stories high; weave shed 301.4x231 feet, one story, with saw-tooth roof; picker and slasher department 47.2x114 feet, two stories; boiler-room, 48.8x66.4 feet; warehouse 102x154 feet, three compartments. The Westervelt company is capitalized at $1,000,000, and will have 50,000 spindles with 1200 looms for manufacturing India lawns and linons. Its organization and plans were announced recently by the MANUFACTURERS RECORD. J. I. Westervelt is president, and Lockwood, Greene & Co. of Boston and Greenville are the architects-engineers in charge.

The Alice Mill.

The Alice Mill of Easley, S. C., will soon be in full operation, producing fancy shirting. This company's 20,000 spindles are in position and producing yarns for the 500 looms which have also been installed, but only 250 looms are now weaving cloth. The Alice mill building is three stories high, 336.9x107.4 feet, and the warehouse is three stories high, 60x100 feet. Electric power drives the textile machinery, except the slashers, which (with the heating equipment) are furnished with a steam-power plant. The organization of this company and its plans were reported last year by the MANUFACTURERS RECORD. E. H. Shanklin is president. J. E. Sirrine of Greenville, S. C., was the architect-engineer of the plant.

Big Wool Storage Capacity.

The Wool Growers' Central Storage Co. of San Angelo, Tex., will build a 56x180-foot warehouse for wool and mohair, and has awarded the contract at $7000 to Willkie Bros. of San Angelo. When this building is completed the company will have a storage capacity of 2,250,000 pounds.

Allgood Hosiery Mill.

The Allgood Hosiery Mills Co. of Vaughan, N. C., has purchased the Vaughan Hosiery Mills Co. plant of 28 knitting machines, dyeing and finishing equipment, etc. This new company was reported incorporated lately with $20,000 capital stock, and it has organized with A. C. Allgood, president, and J. P. Vaughan, secretary-treasurer.

Dunean Cotton Mills.

The Dunean Cotton Mills of Greenville, S. C., will organize with J. Adger Smyth, Jr., president, and a capital stock of $1,000,000 to build a 50,000-spindle and 1500-loom plant. J. E. Sirrine of Greenville will be the company's architect. The Dunean company was mentioned briefly in January.

Hambley Damask Mill.

The Hambley Manufacturing Co. of Salisbury, N. C., has not determined details of its mercerized damask mill, and will not make plans or open bids for building or machinery before April 20. This company's organization, with $125,000 capital stock, was reported previously. Its secretary-treasurer is Gilbert F. Hambley.

Tar River Hosiery Mill.

J. T. Lewis of Washington, N. C., will establish the Tar River Hosiery Mill, with 35 knitting machines costing about $3500 and a 30-horse-power steam plant costing about $1500. He has a two-story 30x70-foot building for the plant, which will have a daily capacity of 150 dozen pairs of misses' ribbed hose.

Basic Woolen Co.

The Basic Woolen Co. of Basic City, Va., has been chartered with $75,000 capital stock. Its officers are: President, Hiram Dawson; treasurer, W. H. Gardner; secretary, M. E. Bean.

Hosiery Mill for Lumberton.

Robert E. Lee and associates of Lumberton, N. C., will organize a company to build a knitting mill. Mr. Lee invites manufacturers to send data and estimates on hosiery machinery.

Wants Flannel, Knit Tubing, Etc.

Louis P. Schlamb, 319 Brooke street, Lynchburg, Va., wants to correspond with manufacturers of and dealers in husking cloth, canton flannel, knit tubing, stiffening and thread.

Wants Knitting Machinery.

The Mississippi Fish & Oyster Co. of Pascagoula, Miss., may install knitting machinery, as it is desirous of corresponding with manufacturers of that class of equipment.

The Wennonah Mill.

The Wennonah Cotton Mills Co. of Lexington, N. C., has been chartered with a capital stock of $125,000 by Wm. E. Holt, Wm. E. Holt, Jr., and Joe V. Moffitt.

Textile Notes.

The Calhoun Cotton Cordage Co. succeeds the Planters' Manufacturing Co. of Oxford, Ala., and may enlarge the plant.

The Royal Bag & Yarn Manufacturing Co. of Charleston, S. C., has completed the installation of new machinery recently ordered, including 100 four-box looms for weaving fancy ginghams, and a finishing machine.

Ray Weiss, former general sales agent of the Kirby Lumber Co., Houston, Tex., has removed to Chicago to take the position of manager of the Northern sales office, vice G. M. Coale, who severs his connection with the company. John W. Chandler, formerly assistant general sales agent at Houston, succeeds Mr. Weiss as general sales agent in that city.

LUMBER

[A complete record of new mills and building operations in the South will be found in the Construction Department.]

January Building Operations.

Southern and Southwestern building operations in January, as indicated by the estimated value of construction for which permits were issued in several representative cities during the month, indicate a general advance as compared with January of the previous year. The report of the building inspector of Birmingham shows a total of construction for which permits were issued in that city during the month amounting to $270,000, which is a gain of about $50,000 as compared with January, 1910. A total of 211 permits was issued in Memphis during the month, representing a valuation of $846,725, and in Knoxville permits were issued to an estimated value of $41,080. Operations in St. Louis, while showing a slight decrease from those of January, 1910, largely increased over January of 1909. For new construction, including alterations and repairs, permits were issued to an estimated value of $1,356,655. During the month nearly $500,000 worth of construction was authorized by the engineer's department of Houston, while operations in Fort Worth aggregated $325,020, which is said to be the best record of any January in the history of the city. A total of 120 permits was issued in Dallas, representing a cost of construction of $178,280, and many extensive improvements were undertaken in Galveston. Permits were issued in Little Rock to a total of 174, representing a cost of construction of $76,927. The aggregate value of construction for which permits were issued in Oklahoma City during the month is estimated at $125,830. As shown by a report of operations in the District of Columbia for the month, an increase of about $750,000 was made over the month of December. A total of 315 permits was issued in January, representing a cost of construction of $1,278,952, as compared with a total of 323 permits issued in December, representing an expenditure of $523,805.

Laurel River Logging Co.

Two hundred men are employed on constructing 10 miles of railroad from Reunion, near Hot Springs, N. C., up the Laurel River to the Tennessee line, and with a probability of ultimately extending through a section of Tennessee to connect with the C. C. & O. Railroad, making 35 miles in all. This is being built for the increased development of the Laurel River Logging Co.'s lumber interests. The company has a lumber mill at Reunion and another at Pounding Mill, and it is the intention to begin operations in April. It has about 40,000 acres in Madison county, and over 6000 acres across the Tennessee line (formerly owned by the North Carolina Land & Timber Co.) is virgin forest, and will cut about 75,000,000 feet of white pine and 45,000,000 feet of poplar, large quantities of hemlock and other timbers.

The president of this company is Ansen Betts of Troy, N. Y., who is quoted as saying that he expects to rush the construction through this almost inaccessible region, which will be greatly benefited. Hot Springs will also profit by this enterprise, as the banking business of the company will be conducted there.

Messrs. R. Simmons, J. G. Blitch and others of Statesboro, Ga., are rumored as interested in a plan to build a mill for manufacturing yarns from Sea Island cotton.

MINING

Alabama Fuel & Iron Company.

The Alabama Fuel & Iron Co. of Birmingham is proceeding with the erection of its large coal washer on the properties between Acmar and Marguerite mines. About $125,000 is being expended for this washer (said to be the largest south of the Ohio River) and $25,000 for equipment to supply electricity for the entire properties at Acmar, Marguerite and Henry Ellen.

Contract for electrical equipment was awarded to the Western Electric Co. of Hawthorne, Chicago, and for the washer to the American Concentration Co. of Joplin, Mo. The plant will be located near an impounding dam at the junction of railroad lines leading to Acmar and Marguerite mines. The washer will be of reinforced concrete and steel throughout, and the coal will be handled from full-sized railroad coal cars carried up on a trestle above the washer to the receiving bin. The coal from all the mines is to be dumped into this bin, and when emptied the cars will run by gravity to a self-switching track on which they will take a position immediately under the washer, ready to be loaded with coal washed ready for hauling. The washer plant will consist of eight complete units, with bins of different capacities to suit the demand as may be required. The plant is so arranged that further increases of the units may be easily made. This plan also permits coal of different qualities being kept separate throughout the washing and reloading. The dwellings for officers and employes and all other buildings are being constructed with a view to being modern in every respect, and the mine camp is designed to be a model one, with particular regard to sanitation.

Tennessee Company Plans for Mine and Furnace Improvements.

President George G. Crawford of the Tennessee Coal, Iron & Railroad Co., Birmingham, Ala., has authorized the following statement: "The company will begin work immediately on the development of Pratt coal mine No. 16. This will be a concrete-lined shaft of the size and capacity of mine No. 13, which is now being built and will be located on the new line of the Birmingham Southern Railroad Co. to Bayview. The mine will have a capacity of about 3000 tons of coal per day, and a modern mining camp will be built in connection with the new operations.

"The Tennessee company will also erect an emergency hospital at the Ensley works in furtherance of the humane plan of giving its injured workmen the best attention.

"There will also be constructed additional hot-blast stoves at the Ensley blast furnaces."

Developing Alabama Coal Lands.

Announcement has been made by Frank Nelson, Jr., of Birmingham, Ala., that the properties recently purchased from the estate of the late Joseph Bryan in Walker county will be developed by a company with a capital of between $500,000 and $1,000,000. It is stated the company will be formed only among the men taking part in the Bryan purchase. The estate lies in Walker county, between the Louisville & Nashville, Frisco and Southern railroads. The owners state that they intend to make large expenditures in opening new mines, building quarters for the miners and making other improvements which will represent an investment of $500,000 or more. Spur tracks will be built by the railroad companies to the various mine openings, and the facilities for transportation will be excellent. Frank Nelson, Jr., is president of the Empire Coal Co. of Birmingham, and states that the company which will be formed to operate and develop the new mines will do so in the most modern and efficient manner. In industrial circles of the Birmingham district the developments of the Walker county and the large holdings of the Pratt Consolidated Coal Co. are being watched with great interest. The latter company has acquired the Long estate, and plans are being formulated for developing that property for coal mines. Altogether the work to be carried out by the men controlling these two developments is expected to rival other great industrial achievements of the Birmingham district. There are about 8000 acres in the Bryan property, and coal is at present being mined from two openings, about 800 tons daily.

Natural Gas in 1909 and 1910.

The production of natural gas in the United States in 1909, as ascertained by a joint canvass made by the United States Geological Survey and the Bureau of the Census, is estimated by B. Hill, in charge of this work, under the supervision of D. T. Day, to have been $55,000,000, an increase of only about $359,626 over that of 1908. There were no great changes in the industry during the year, the production continuing to decline in Kansas, and an increase being made in Oklahoma and in the Caddo field in Louisiana and in Texas. An interesting feature was the supplying of Fort Worth and Dallas from the gas fields of Clay county, Texas. For the year 1910 the total production is estimated at $57,000,000, an increase of about $2,000,000 over 1909. During 1910 a feature of great interest was the development of what promises to be a very large supply of natural gas in the Buena Vista Hills, Kern county, California, east of the Sunset-McKittrick oil field. Arrangements were made and practically completed during the year for piping this gas to Bakersfield and other towns in San Joaquin Valley.

Bonds for Mining Improvements.

President Harry L. Badham of the Bessemer Coal, Iron & Land Co., Birmingham, Ala., has announced the sale of $350,000 of improvement bonds to Otto Marx & Co. of that city. The securities will be used to retire $125,000 of a former issue and to make improvements at Belle Ellen and other mines.

The company has opened a new mine at Youngblood at a cost of nearly $100,000, and the entire amount of the bonds above this expense and the retirement of $125,000 previously referred to will be expended in the Birmingham district in the betterment of the company's properties. It is planned to duplicate all the machinery at the various mines, in order that operating will not be delayed in case of breakdowns. This will include the duplication of electric equipment and the installation of other machinery, rendering the plants among the best of the Birmingham district.

Meadowbrook Coal Property Sale.

The sale of the Meadowbrook property of the Cook Coal & Coke Co. to the Hutchinson Coal Co. of Fairmont, W. Va., has been effected. This is a large mining operation on what is known as the Camden coal, and embraces 750 acres, with equipment, including tipples, houses and other adjuncts of a coal mine. The plant is considered to be one of the best on West Fork River, and the purchase price is reported as about $175,000. The sellers are residents of Philadelphia.

The Hutchinson company is becoming one of the most extensive operating companies in that district. In addition to the Meadowbrook mine, it is operating a mine at Mt. Clare, one at Erie, another at Mason City, and a large one in Belmont county, Ohio. Mines at Wilsonberg and Lambert's Run, W. Va., are being opened.

Red Oxide and Ocher Mines.

The Rapid Transit Development Co., 1232 Tribune Building, New York, states it will develop a property of 83 acres in Virginia for the purpose of mining what is reported to be a very rich deposit of iron impregnated color clays, red oxide of iron and ochers. It is stated that a subsidiary company will be formed, of which W. E. Kinzey will be president and Chas. A. Sholer, secretary, with a plant to be erected either at Snowville or Roanoke, Va. This company will require machinery for the grinding, drying and mixing of red oxide of iron, ochers and other paint pigments.

Waller Mining Corporation.

With principal offices at Falls Church, Va., the Waller Mining Corporation recently made application for a charter, with capital stock of $500,000. The corporation proposes to develop gold mine property. The officers are: Horace E. Brown, president, Falls Church; H. Scott Ryer, vice-president, East Falls Church, Va.; C. D. Garrett, secretary, Washington, D. C.; C. C. Caywood, treasurer, also of Washington.

To Reclaim 34,075 Acres of Land

The Michaud tract, comprising 34,075 acres of rich farming lands near New Orleans, has been sold to Sol Wexler, vice-president of the Whitney-Central National Bank of that city. The purchase price has not been announced, but it is understood that it and the reclamation system will represent an investment of about $1,000,000.

The Orleans Drainage Co. will be formed to develop the property, the charter is being prepared, and it has been said that Mr. Wexler will be the president. It is understood that the first board of directors will be men of substantial financial standing in New Orleans and Chicago.

The tract has been declared to be the most desirable farming land in the State, and has many features which make it valuable and attractive to the small farmer. The New Orleans & Northeastern Railroad runs along the entire front of the property. The land is in Orleans parish, six miles from New Orleans. It is bounded by Lake Borgne, Lake Pontchartrain, Chef Menteur and the property of the New Orleans Lake Shore Land Co. The land almost connects with the property of the Gentilly Terrace Co. It had been in the possession of the Michaud family up to several years ago, when it was purchased by Warren B. Reed of New Orleans and Chicago investors. Mr. Wexler is quoted as saying:

"The land is about the finest proposition that you can find in the State. The company is being formed to develop the tract, and work will be started immediately to complete the reclamation work which was started several months ago. There are many hundred acres of high, dry land in the tract.

"The property will be cut up into small farms, according to the present plans of the company, and will be sold to farmers. It is also the intention of those interested in the deal to reserve a large portion to be devoted to the building up of a residential section. It has been intimated that after the property has been thoroughly made fit for farming purposes a road will be built extending from one end of the property to Lake Pontchartrain, affording a 40-mile drive."

MECHANICAL

Automatic Reversing Tripper.

Since the publication of an article on December 1, 1910, describing the automatic reversing tripper made by the Stephens-Adamson Manufacturing Co. of Aurora, Ill., we have received a letter from Thomas Robins, president of the Robins Conveying Belt Co., from which we quote as follows:

"Our attention has just been called to an article on page 77 of your December 1 number, which describes and illustrates an automatic reversing tripper which, according to the article, is made by the Stephens-Adamson Manufacturing Co. of Aurora, Illinois.

"This machine is described as a new automatic reversing tripper. Your article contained such a full and detailed description of the mechanism that we are able to say with certainty that the device infringes every one of the twelve claims of our patent No. 673,539 of May 7, 1901, covering the tripper invented by the late James Barnes Humphreys, who was for several years the chief engineer of this company. * * * Our company has built hundreds of trippers under this patent, every one of which is plainly marked with the patent number. We have also had full size machines of this type operating at all of the large world's fairs since the Paris Exposition of 1900, where we received the only 'grand prize' which was awarded for conveying machinery. Furthermore, this same tripper is illustrated and described fully in our earlier catalogues."

[The MANUFACTURERS RECORD cannot assume to decide any question of infringement or to enter into a controversy between manufacturers relating thereto, but having published the description of the automatic reversing tripper made by the Stephens-Adamson Manufacturing Co., it is only fair to the Robins Conveying Belt Co. that we publish its statement.]

For Permanent Roadway Paving.

In the history of roadway paving it is probable that no material has been so widely and universally used in all ages to meet the most exacting conditions of wear and longevity as stone block in some of its various sizes, forms and methods of application. Modern scientific experiment and study have wrought wonderful changes and advances in the methods of using this material, as in many other industries where machinery has been extensively employed to perfect the product as well as the process of production. Of first importance in road paving is the foundation, without which no lasting paving is possible. The Hassam Paving Co. of Worcester, Mass., claims to have developed a foundation in which the content of stone is from 15 to 20 per cent. greater than can be secured by any other known method of construction. The company places on a well-rolled subgrade from four to six inches of broken stone after rolling or compressing. This is thoroughly compacted by a steam roller until the voids are reduced to a minimum, and then bonded with a grout of four parts of sand and one or more parts of cement. The grout is mixed in a special patented Hassam grout mixer, the machine being capable of covering hundreds of square yards of foundation per day, according to depth.

In addition to granite block pavement, the Hassam Paving Co. also constructs concrete compressed pavements, and has subsidiary and licensed companies in various parts of the United States. The company issues a booklet describing in detail the construction of Hassam pavements, interestingly illustrated.

Construction Department

TO OUR READERS!

In order to follow up properly the Construction Department items, please bear in mind the following statements:

EXPLANATORY

The MANUFACTURERS RECORD seeks to verify the items reported in its Construction Department by full investigation. It is often impossible to do this before the item must be printed or else lose its value as news, and when this is necessary the statements are made as rumored or reported, and not as positive information. If our readers will note these points they will see the necessity of the discrimination. We are always glad to have our attention called to errors that may occur.

HOW TO ADDRESS

The name of one or more incorporators of a newly incorporated enterprise should always be shown on letter addressed to the official headquarters or to the town of the parties sought, as may be shown in the item. Sometimes a communication merely addressed in the corporate or official name of a newly established company or enterprise cannot be delivered by the postmaster. By following these general directions the postoffice will be enabled to deliver your mail promptly, although it is inevitable that some failure by the postal authorities to deliver mail to new concerns will occur.

WRITE PERSONAL LETTERS

In communicating with individuals and firms reported in these columns a letter written specifically about the matter reported will receive better and quicker attention than a circular.

"In correspondence relating to information published in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned."

The Daily Bulletin of the Manufacturers Record is published every business day in order to give the earliest possible news about new industrial, commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invaluable to manufacturers, contractors, engineers and all others who want to get in touch at the earliest moment with new undertakings, or the enlargement of established enterprises. The subscription price is $25 per year. On all advertising contracts in the Manufacturers Record for three months or longer a subscription for the contract period to the Daily Bulletin is included.

BRIDGES, CULVERTS, VIADUCTS

Ala., Selma.—Dallas County Commissioners awarded contract to Converse Bridge Co., Chattanooga, Tenn., at $13,313 to construct 23 bridges; county will build abutments to all structures.

Ark., Clinton.—Van Buren county will let contract March 15 for building previously-noted steel bridge; two 110-foot spans; 45 and 60-foot approaches; plans and specifications with J. W. Sneed, County Clerk; J. W. McMahan and J. A. Thomas, Commissioners. (See "Machinery Wanted.")

Miss., Meridian.—Meridian Street Railway Co. will construct concrete double track bridge costing about $4000 over stream near 8th St.

Mo., Kansas City.—City awarded contract to William P. Carmichael Construction Co., St. Louis, Mo., at $60,318.75 to construct reinforced concrete arch bridge across Blue River at 15th St.; 228 feet long; roadway 40 feet wide; 8-foot sidewalk on each side; roadway to be paved with creosote blocks; also understood to have decided to award contract to H. B. Thompson Construction Co., San Antonio, Tex., at $14,056 to construct reinforced concrete arch bridge over Brush Creek at Cleveland Ave.; 100 feet long; creosote-block roadway 26 feet wide; 7-foot sidewalk on each side; Waddell & Harrington, Leslie-Orear Bldg., Kansas City, are engineers. (Recently mentioned.)

N. C., Charlotte.—Mecklenburg and Gaston County Commissioners contemplate construction of bridge across Catawba River at Sloan's Ferry; cost about $35,000. Address Mecklenburg County Commissioners at Charlotte, or Gaston County Commissioners at Dallas, N. C.

N. C., Winston-Salem.—North Carolina Traction Co., H. P. MacKnight, chief engineer, Southern Pines, N. C., will construct 600-foot steel bridge and several trestles in connection with railway construction, contract for which has been awarded to Propst Contracting Co., Charlotte, N. C.

Okla., Guthrie.—City voted issuance of $45,000 of bonds toward construction of viaduct; structure is to be constructed jointly by city, Oklahoma division of Gulf, Colorado & Santa Fe (G. W. Etter, superintendent), and Guthrie Street Railway Co. over railroad tracks and Cottonwood River; length will be 800 feet and width 40 feet; other improvements are to be included, making total cost about $500,000. Address City Commission. (Recently mentioned.)

Okla., Tulsa.—Sand Spring Interurban Railway, W. E. Rohde, general manager, will erect 30-foot-span iron bridge and about 120 trestle on route of proposed seven-mile line from Sand Springs to Tulsa.

Tenn., Greenville.—Greenville & Nolichuckey Railway Co., H. B. Emerson, chief engineer, Greenville, will construct 700-foot bridge across Nolichuckey River.

Tenn., Knoxville.—Board of Public Works contemplates construction of bridge over First Creek on Sixth Ave.; to be of reinforced concrete; 60 feet wide; girder construction; concrete floor; cost estimated at $2900; H. E. Thompson, City Engineer, has made survey; definite plans not made pending action of Mayor and Council as to appropriation to cover cost.

Tenn., Memphis.—City's plans for construction of bridge by railway companies on McLemore Ave. (recently noted) calls for structure 40 feet wide, with two sidewalks 4 feet wide; 32 foot roadway having two U-shaped approaches 50 feet wide over all, and central depressed roadway 15 feet wide; total length of viaduct, including approaches, 955 feet long; in addition, 330-foot viaduct approach is carried south by main bridge; 20 feet wide over all with 15-foot roadway and 4-foot sidewalk on one side only; bridge will be of reinforced concrete supported by columns with dirt fill at each end; plans by G. H. Weatherford, City Engineer.

Tenn., Memphis.—City will construct 400 linear feet concrete culvert on Barksdale St. from Union Ave. to Nashville, Chattanooga & St. Louis, Railway; two inlets; 254 linear feet of 24-inch pipe; bids opened February 7; E. H. Crump, Mayor.

Tex., Sealy.—Gulf, Velasco & Northern Railway Co., John S. Bartlett, secretary, Columbia, Tex., will construct two trestles, one 75 yards and one 50 to 60 feet, in connection with 92 miles of line to be built from Gulf to Sealy, Tex.

Va., Danville.—City will have plans prepared by Wilbur J. Watson, Cleveland, O., for concrete bridge to be constructed across Dan River at Union St.; cost about $40,000; plans will be ready for contractors about February 20 and bids will be invited. (Recently mentioned.)

Va., Lawrenceville.—Brunswick county will construct steel bridge 285 feet long, with 12-foot roadway, across Great Creek; bids received until February 15; P. St. J. Wilson, State Highway Commissioner, Richmond, Va. (See "Machinery Wanted.")

Va., Richmond.—Charles E. Bolling, City Engineer, petitioned Council committee on finance for appropriation of $12,000 to repair free bridge across James River.

Va., Spottsylvania.—Spottsylvania County Supervisors ordered construction of iron and concrete bridges.

W. Va., Kenova.—Norfolk & Western Railway, C. S. Churchill, chief engineer, Roanoke, Va., will construct proposed double-track bridge across Ohio river at Kenova; contract awarded for 12,000 tons of structural iron.

CANNING AND PACKING PLANTS

Ark., Little Rock.—Arkansas Packing & Provision Co. incorporated with $150,000 capital stock by L. P. Dreyfus, F. E. Sutton, B. N. Lovelace and others.

Fla., Miami.—Chase & Co. will erect wood and corrugated iron building and equip for packing tomatoes; daily capacity, six cars of tomatoes; also erect corrugated iron building and establish packing plant with daily capacity of 1500 to 2000 crates of vegetables.

Miss., Jackson.—James B. Lusk, secretary Board of Trade, is interested in establishment of vegetable cannery; cost $10,000 to $12,000.

Tex., Fort Worth.—F. P. Hopkins of North Fort Worth Townsite Co. is interested in establishment of packing plant; cost $15,000.

Va.-Tenn., Bristol.—A. L. Womack Company (recently reported incorporated with $25,000 capital stock) will receive bids at once to erect one-story 100x100-foot and two-story 30x100-foot building; concrete and brick veneer; gas and electric lighting; cost $5000; will install machinery; A. L. Womack, president; W. D. Wolford, vice-president; E. M. Kaylor, secretary-treasurer.

Va., Warsaw.—S. B. Hardwick of Kinsale, Va., representing Baltimore (Md.) packer, is considering establishment of cannery.

CLAYWORKING PLANTS

Ark., Little Rock.—Little Rock Hydraulic Brick Co. is being organized by Leon Newmainville; will establish brick plant.

Md., Easton—Bricks, etc.—Easton Brick & Tile Manufacturing Co., Frank A. White, president and general manager (recently noted incorporated with $25,000 capital stock), has taken over plant of Jas. H. White & Son; will make but few changes at present.

Mo., Sedalia—Brick and Tile.—Sedalia Brick & Tile Co. incorporated with $50,000 capital stock by Jerome Moyer, H. W. Graham, J. Overmier and others.

Tenn., Tullahoma—Bricks, Tile, etc.—R. H. Nabring of Upland, Ind., purchased J. W. Lupher's brick plant; will enlarge and manufacture tile.

W. Va., Grafton—Pottery.—W. H. Warren and J. H. Irving are promoting establishment of pottery to manufacture fancy clay jars, etc.

COAL MINES AND COKE OVENS

Ala., Bessemer.—Bessemer Coal, Iron & Land Co., Harry L. Badham, president, has disposed of $350,000 bond issue to retire former bond issue of $125,000 and to provide for improvements at Belle Ellen mines and elsewhere; betterments will include duplication of electrical and other equipment at various mines; has about completed opening new mine at Youngblood costing about $100,000.

Ala., Birmingham.—Frank Nelson, Jr. (president Empire Coal Co.), and associates will organize company with capital stock of $500,000 to $1,000,000 to develop Bryan estate coal lands, comprising about 8000 acres in Jefferson and Walker counties; plan to open additional mines, erect houses for miners and make various other improvements; property now has two openings with daily output of 800 tons of coal. (Bryan purchase recently mentioned.)

Ala., Birmingham.—Alabama Fuel & Iron Co., Brown-Marx Bldg., will expend $150,000 for additional improvements, including erection of $125,000 coal washer on properties between Acmar and Marguerite mines and electrical equipment, costing $25,000, to operate washer and supply power for entire properties at Acmar, Marguerite and Hendry Ellen; washer of reinforced concrete and steel; daily capacity, 3500 tons of coal; trestle of standard-gauge tracks will be constructed, upon which full-sized railroad cars will be carried to receiving bin, into which coal from both mines will be emptied; by gravity cars will run from topmost point to end, where self-switching track will be placed; plan calls for washer of eight units, two to be medium-size coal bins and six of smaller size; build railroad yards adjacent to washing plant; construction of railroad tracks progressing; erection of washer begun; contract awarded to American Concentration Co., Joplin, Mo.; contract for electrical equipment awarded. (Brief details of coal washer previously reported.)

Ala., Birmingham.—Tennessee Coal, Iron & Railroad Co. will develop Pratt Mine No. 16; construct concrete-lined shaft; daily capacity to be 3000 tons coal; build modern mining camp complete; location on new line of Birmingham Southern Railroad to Bay view.

Ky., Barbourville.—J. D. Main is interested in organization of company to develop 300 acres of coal land; daily output not determined. (Recently noted.)

Ky., Middlesboro.—Nicholson Coal Co., J. C. Cardwell, president, Louisville, Ky., will install electric plant for lights, electric haulage and coal-cutting machinery.

Ky., Trenton.—Kimberly Coal Co. incorporated with $30,000 capital stock by W. B. L. Cooke, E. F. Camp, C. G. McChesney and others; will operate mine in Hopkins county, near Madisonville, Ky.; main offices, Trenton.

Ky., Tinsley.—Greasey Creek Coal Co., Jellico, Tenn., will develop 500 acres coal land; daily capacity, 5 to 10 cars coal; R. B. Baird is president.

Mo., St. Louis.—Security Coal & Mining Co. incorporated with $30,000 capital stock by James E. Rutledge and W. A. Lafont, both of St. Louis, and M. I. Bowen of Duquoin, Ill.

Okla., Dewr.—Oklahoma Coal Co. (recently noted to have purchased property of Fred Karrie Coal Co. and to erect additional buildings) will develop 6000 acres of coal land; present daily capacity, 800 tons; contemplates increasing output to 1600 tons; engineer not engaged; machinery proposals to open in 30 days; J. P. Davison is manager. (See "Machinery Wanted.")

Okla., Berlin.—Berlin-Leemaster-Mason Coal Mining Co. incorporated with $6000 capital stock by C. G. Berlin, L. W. Leemaster and B. F. Mason of Craig, Okla.

W. Va., Gilmer.—Southwest Virginia Coal Co., recently reported incorporated with $50,000 capital stock by F. Ernest Brackett of Cumberland, Md., and others, will develop 160 acres land; daily output, 250 tons coal; company not organized; side track has been graded and operations will begin in early spring.

W. Va., Meadowbrook.—Hutchinson Coal Co., Fairmont, W. Va., purchased Cook Coal & Coke Co.'s property, comprising 750 acres; equipment includes tipples, houses and other adjuncts; purchase price reported as about $175,000.

CONCRETE AND CEMENT PLANTS

Ala., Oneonta.—Blount County Cement Block & Sewer Pipe Co. organized; John F. Kelton, president; Z. E. Bellah, secretary; John F. Shockley, general manager.

COTTON COMPRESSES AND GINS

Ala., Bay Minette.—Farmers' Gin Co. will establish cotton gin, grist mill and syrup refinery; will erect fireproof building.

Ala., Summerdale.—J. B. McCall, chairman of Industrial League, is interested in establishment of cotton gin.

S. C., Seneca.—Seneca Oil Mills will rebuild cotton gin reported burned; loss $7000 to $8000.

Tenn., Lexington.—Lexington Gin Co. incorporated with $8000 capital stock by C. P. Wilson, C. G. Wilson, J. A. Gilmore and others.

Tex., Bentonville.—Bentonville Gin Co. incorporated with $6000 capital stock by C. S. Fowler, William Adams, P. A. Presnall and others.

Tex., Fort Worth.—Sam Rosen is interested in establishment of cotton gin.

COTTONSEED-OIL MILLS

N. C., Newton.—John P. Yount may be addressed relative to erection of proposed cottonseed oil mill.

S. C., Georgetown.—Georgetown Grocery Co. contemplates erection of cottonseed-oil mill. (See "Machinery Wanted.")

Tex., Knox City.—Stonewall Oil Milling Co. incorporated with $20,000 capital stock by J. H. McLain, W. M. Sandifer, R. L. McLain and others.

Tex., Taylor.—Taylor District Farmers' Union Warehouse Co. organized with J. R. Hargis, president; R. A. Bradford, secretary-treasurer; will establish $25,000 cotton gin and 500-ton cottonseed-house.

DRAINAGE AND IRRIGATION

La., New Orleans.—Orleans Drainage Co. will be incorporated by Sol Wexler (vice-president Whitney Central National Bank) and others to develop Michaud tract of 34,075 acres in Orleans Parish, about 6 miles from New Orleans; property is bounded by Lake Borgne, Lake Pontchartrain, Chef Menteur and property of New Orleans Lake Shore Land Co.; construction of reclamation system was begun several months ago; present plan is to divide tract into small farms and reserve portion of it for residential section; after land has become available for farming purposes, it is stated that

40-mile drive will be built from one end of tract to Lake Pontchartrain; purchase price and cost of reclamation system will be about $1,000,000; understood Mr. Wexler will be president.

Miss., Greenville.—Drainage district has been organized comprising property between river and Black Bayou and extending from point opposite Greenville to Swan Lake, distance of about 25 miles; J. H. Nelms, chairman of committee.

Tex., Mercedes.—W. T. Adams has begun construction of proposed Llano Grande Canal for development of about 10,000 acres of land; Waldo & Reith of Mercedes secured engineering contract.

ELECTRIC LIGHT AND POWER

Ala., Albertville.—City postponed election from January 16 (as lately stated) to February 20 for voting on issuance of $7000 of bonds for construction of electric plant. Address The Mayor.

Ala., Dothan.—City will construct electric-light plant and water-works recently noted; erect 60x200-foot brick building and 10x125-foot brick stack; install electric machinery, etc.; B. R. Pilcher, engineer in charge. (See "Water-works.")

Ark., Ashdown.—City will construct electric-light plant. Address The Mayor.

Ark., Helena.—Helena Gas & Electric Co. (recently reported incorporated under "Miscellaneous Manufacturing") will acquire Helena Gas Co.'s electric-light and gas plants, and contemplates, it is reported, installing additional machinery; Claude S. Fitzpatrick, J. B. Miles, Jr., and others are incorporators.

Fla., Fort Lauderdale.—Fort Lauderdale Ice & Light Co. incorporated with $50,000 capital stock; Henry R. Brown, president. (See "Ice and Cold-storage Plants.")

Fla., Live Oak.—Live Oak Electric Co. organized with Harry J. Wood, president and treasurer; C. E. Jones, vice-president; A. Lee Humphreys, secretary; purchased electric light plant for $40,000 and planing mill.

Ga., Tallulah. — Georgia Power Co., C. Elmer Smith, president, York, Pa., completed arrangements to begin Tallulah Falls development; construct water-power-electric plant developing 100,000 horse-power; machinery will include six electric generators of 15,000 horse-power each, etc.; build dam 100 feet high and tunnel water 1¼ miles for 600-foot fall; construct steel towers to hold double wires for transmitting electricity at 110,000 volts to Atlanta, 90 miles distant, where company will erect large distributing station; will also erect distributing station near Tallulah and transmit electricity over 300 miles of wires; all contracts are being awarded through Northern Contracting Co. of Detroit, Mich., and New York. Mr. Smith telegraphs Manufacturers Record machinery details cannot be stated now, as contracts will not be awarded for a few weeks; engineer in charge is C. O. Lenz, 71 Broadway, New York, assisted by C. E. Parsons, also of New York. Georgia Power Co. previously acquired North Georgia Electric Co. of Gainesville, Ga., furnishing 3000 horse-power and having further power available; Etowah Power Co. of Canton, with properties capable of furnishing 30,000 horse-power, water-power at Franklin capable of furnishing more than 30,000 horse-power, and other powers on upper Chattahoochee River capable of furnishing additional power to make 200,000 horse-power for all water-powers above mentioned. Georgia Power Co. is capitalized at $10,000,000 in common stock and $10,000,000 in bonds. A. W. McLimont of Jackson, Mich., is vice-president, Kirke Lathrope of Detroit, Mich., is secretary-treasurer. (Company's issuance of securities and general plan outlined by Manufacturers Record in December and previously.)

Ky., Lexington.—Lexington & Interurban Railway Co. will expend $1,000,000 for various improvements, including erection of $500,000 power plant.

Ky., Paintsville.—H. La Vier, Clarence W. Howes, H. M. Stafford and D. J. Wheeler are organizing company to construct electric-light system.

Ky., Richmond. — Richmond Electric & Power Co., L. B. Herrington, president, issued $20,000 of bonds to provide for future extensions and improvements to system. (Company recently reported to have increased capital stock to $80,000.)

La., Many.—Many Ice, Light & Water Co., W. C. Roaten, president, will install 75-kilowatt generator; machinery bids opened at once; W. M. Robertson, manager. (See "Ice and Cold-storage Plants.")

La., New Iberia.—Southwestern Power & Traction Co., F. W. Crosby, president, New Orleans, La., will construct power plant at New Iberia and substations along route of proposed railway, which is from New Iberia to Lafayette, La.; substations will furnish various manufacturing plants with power.

Mo., Burlington.—City voted issuance of $8500 electric light bonds. Address The Mayor.

N. C., Wilmington.—Tidewater Power Co., A. B. Skelding, general manager, plans increasing capacity of power plant and mak'ng various improvements at Lumina, Wrightsville Beach; plant will be enlarged and equipped with additional machinery, including 500-kilowatt rotary converter, 500-horse-power boiler and 200-kilowatt lighting transformers; boiler capacity will be increased 50 per cent.; present 150-kilowatt converter will be installed at substation at Wrightsville Sound, where it will be used as auxiliary unit in cases of emergency.

Okla., Boley.—Boley Light & Power Co. increased capital stock from $5000 to $20,000.

Okla., Heavener. — Degna-McConnell Coal Co., Wilburton, Okla., applied for franchise to construct and operate electric light plant.

Tex., Georgetown.—City will make extension to electric-light plant and water-works recently noted; F. H. Lancashire, engineer in charge, Dallas, Tex. (See "Water-works.")

Tex., San Antonio.—San Antonio Gas & Electric Co. will improve plant.

Tex., Waco.—City will vote February 14 on issuance of $250,000 of bonds for construction of electric-light plant; H. B. Mistrot, Mayor; A. L. Elliott, City Secretary. (Recently mentioned.)

Va., Warrenton.—Warrenton Electric Light, Ice & Fuel Co., M. J. O'Connell, general manager, will not make any improvements at present; later contemplates enlarging plant. (Lately noted.)

FERTILIZER FACTORIES

Ga., Augusta.—International Agricultural Corporation, 165 Broadway, New York, will establish plant to manufacture phosphoric acid.

Md., Baltimore.—Miller Fertilizer Co., 5-9 S. Gay St., awarded contract to Peters & Harding, 15 E. Fayette St., Baltimore, for improvements to plant at Canton; will install hoists, elevators, conveyors, etc.; plans by Theodore Wells Pietsch, American Bldg., Baltimore; Painter & Posey, engineers in charge, 324 N. Charles St., Baltimore. (Lately noted.)

N. C., Wilmington.—Pearsall & Co. will erect addition to plant; 112x100 feet; construction begun.

Va., Irvington.—Carter's Creek Fish Guano Co. increased capital stock from $50,000 to $100,000.

Va., Yorktown.—Yorktown Chemical Works, recently noted incorporated with $300,000 capital stock, will manufacture chemical products; erect building; mill construction; cost $50,000; will install tanks, boilers, engines, etc.; F. H. Johnson is president; American Cement Engineering Co., 315 Fifth Ave., New York, engineer in charge of construction.

FLOUR, FEED AND MEAL MILLS

Ala., Bay Minette.—Farmers' Gin Co. will establish grist mill, cotton gin and syrup refinery.

N. C., Louisburg.—Allen Bros. raised mill four feet; will construct lower portion with brick and utilize additional space for machinery room; also install new set of mill stones throughout.

Okla., Tulsa.—Rea-Reed Mill & Elevator Co. will double capacity of feed-meal plant; present daily capacity 250 barrels flour, 200 sacks cornmeal and 1000 sacks corn.

Okla., Muskogee.—Central Milling Co., J. Z. Keel, Gainesville, Tex., president, recently noted incorporated with $24,000 capital stock, has purchased machinery for feed mill and grain elevator as previously stated; building under construction; daily capacity, 20 cars of feed.

Tex., Ennis.—Ennis Milling Co. incorporated with $10,000 capital stock by J. W. Allison, Alex. P. Allison and Andrew Allison.

FOUNDRY AND MACHINE PLANTS

Ky., Lexington — Gasoline Engines, etc. — Lexington Machine Works (recently reported incorporated with $12,000 capital stock) will manufacture gasoline engines and special machinery, also deal in and repair machinery of all kinds; James Love, president; J. B. Glenn, secretary; Y. Alexander, treasurer. (See "Machinery Wanted.")

La., Thibodaux — Boilers, etc. — Lafourche Boiler & Sheet-Iron Works, Ltd. (recently noted organized with $10,000 capital stock) succeeds Lafourche Boiler & Sheet-Iron Works; will make some improvements; Theophile Dupre, president, treasurer and manager; Charles N. Dupre, vice-president; T. R. Simmons, secretary.

Md., Baltimore — Gas Engines. — Charles White Gas Engine Co. has taken over plant of White & Middleton Gas Engine Co., corner Charles and Winder Sts.

Mo., St. Joseph—Machinery.—Jamison Machine Co. incorporated with $10,000 capital stock by William E. Jamison, William T. Jamison and John B. Jamison.

Okla., Tulsa—Structural Iron, etc.—Oklahoma Iron Works, First and Detroit Sts., contemplates expending $50,000 to $75,000 for improvements to plant.

Tenn., Knoxville—Plows.—William J. Oliver Manufacturing Co. will make improvements to plow works, including installation of malleable iron plant.

Tenn., Knoxville—Stoves, etc.—Knox City Iron Works (recently reported incorporated with $25,000 capital stock by James T. Moore and others) is operating established plant; has secured Clinton Iron Works and Maryville Iron Works; will manufacture stoves and utensils.

Tenn., Nashville.—Jones & Hopkins Manufacturing Co., John Jones, president, will erect 175x62-foot warehouse and foundry addition; frame; ironclad; ordinary construction; cost $10,000; construction by owner; Frank Jones, engineer in charge, 1st and Monroe Sts., Nashville.

Va., Richmond.—Tobacco Compress.—Company organized with $250,000 capital stock to manufacture tobacco compress invented by Charles R. Mahone; W. A. Klevesahl is president, Charles R. Mahone vice-president, Maurice Powers secretary-treasurer.

W. Va., Parkersburg—Shovels, etc.—Baldwin Tool Works understood to intend building another shovel plant of same extent as $300,000 plant recently completed and previously described by Manufacturers Record; buildings include 63x683-foot main structure with 53x148-foot wings, 53x71-foot steel shed, 53x53-foot machine shop, 32x53-foot pickling shop, 53x202-foot handle shed; all of brick and steel construction. Frank M. Baldwin of Baldwin Forging & Tool Co., Columbus, O., is president. (Plant just completed is illustrated in this issue of Manufacturers Record.)

GAS AND OIL DEVELOPMENTS

Ala., Birmingham.—Standard Land Co. incorporated with $4000 capital stock; R. D. Goss, president; J. W. Hardie, vice-president; C. D. Ritter, secretary-treasurer.

Okla., Frederick.—Tillman County Oil, Gas & Development Co. incorporated with $20,000 capital stock by Samuel Finley of Frederick, J. M. Hamrick and J. S. Curtis, both of Davidson.

Okla., Muskogee.—Southern Oil & Land Co. incorporated with $50,000 capital stock by E. L. Halsell, T. H. Martin and J. K. Edmons.

Okla., Ardmore.—Scully Oil & Gas Co. incorporated with $200,000 capital stock by G. P. Cobb, A. C. Burwell, J. R. Dexter and others.

Okla., Collinsville.—Collinsville Industrial Co. incorporated with $10,000 capital stock by J. D. Ward, A. R. Ralston and others.

Okla., Oklahoma City.—Guthrie Gas, Oil & Mining Co. incorporated with $25,000 capital stock by Wm. Weinberger, J. J. Tearney, Frank Oldsmith, L. H. Matchett and others.

Okla., Vinita.—Ionian Oil & Gas Co. incorporated with $5000 capital stock by F. L. Kelley, M. G. Hawkins, J. B. McManus and others.

Tex., Dallas.—Dallas-Caddo Oil Co. incorporated with $110,000 capital stock; W. L. Spence, president.

Tex., Longview.—Longview Gas & Oil Co. incorporated with $13,000 capital stock by J. C. Turner, J. H. Hurst and E. A. Morgan.

W. Va., Clarksburg.—Robinson Oil & Gas Co. incorporated with $50,000 capital stock by Nelson Robinson, W. D. Cunningham, W. V. Mathney and others.

W. Va., Huntington.—Franklin Oil Co. incorporated with $10,000 capital stock by Wilton Randolph Berry L. Priddle, Elliott Northcott.

W. Va., Huntington.—Randolph Oil Co. incorporated with $10,000 capital stock by Wilton Randolph, Berry Lee Priddy, Hans Watts and others.

W. Va., Sutton.—Orlando Oil & Gas Co. incorporated with $10,000 capital stock by E. G. Rider, J. V. Tulley, J. W. Johnson and others.

ICE AND COLD-STORAGE PLANTS

Fla., Fort Lauderdale.—Fort Lauderdale Ice & Light Co. incorporated with $50,000 capital stock; Henry R. Brow, president; F. A. Barrett, treasurer; Tom M. Bryan, secretary; all of Fort Lauderdale; J. L. Billingsley, vice-president, of Miami, Fla.

Ga., Augusta.—Atlantic Ice and Coal Corporation, Atlanta, Ga., awarded contract to John H. McKenzie's Sons, Augusta, for erection of ice warehouse; brick; capacity 1500 tons; cost $15,000. (Company previously noted to expend $100,000 for various improvements.)

Ga., Fitzgerald.—J. L. Dorminy, John H. Dorminy and E. Dorminy purchased Fitzgerald Ice Factory for $25,000; will make improvements and operate.

Ky., Clinton.—Clinton Water & Light Co. will establish ice plant.

La., Many.—Many Ice, Light & Water Co., W. C. Roaten, president (recently noted incorporated with $12,000 capital stock), will install 10-ton ice machine and 75-kilowatt generator; machinery bids opened at once; will erect separate small buildings at total cost of $1000; wood construction; W. M. Robertson, manager.

Mo., Warrenton.—Mr. Boettger will establish ice plant; machinery purchased.

Miss., Meridian.—A. J. Lyon & Co. will erect cold-storage plant; inside dimensions, 60x110 feet; storage-rooms 90x25 feet, divided into five compartments; vestibule 8x65 feet; rooms insulated from each other and from outside atmosphere by cork partition four inches thick; ammonia system; capacity 10 tons; machinery purchased; also purchased and will install 3500 feet of one-inch pipe and two carloads of cork; cost $30,000. (Previously noted.)

Tenn., Lebanon.—Cedar City Mills will establish 30-ton ice factory and cold-storage plant.

W. Va., Clarksburg.—Armour & Co., Chicago, Ill., are reported to erect central storage plant; three stories; brick; cost $50,000 to $60,000.

IRON AND STEEL PLANTS

Ala., Ensley.—Tennessee Coal, Iron & Railroad Co., Bimingham, Ala., will construct additional hot-blast stoves at Ensley blast furnaces.

LAND DEVELOPMENTS

Ala., Birmingham.—Odom-Hudnall Realty Co. incorporated with $5000 capital stock; A. J. Odom, president; B. E. Hudnall, vice-president; E. J. Hudnall, secretary-treasurer.

Ala., Fairhope.—Dixie Co-operative Nurseries is being organized by L. H. Read of Bexley, Miss.; J. B. Bridge of Crawford, Miss., and others; will cultivate Satsuma oranges, etc.

Ala., Helena.—Helena Land Co. incorporated with $10,000 capital stock by John A. Curtis, Jr., Frank H. Anslye, John R. Furman and others.

Ala., Montgomery.—Southern Land & Investment Co. incorporated with $50,000 capital stock; G. G. Miles, president; L. Lassiter, vice-president; G. G. Miles, Jr., secretary-treasurer.

Ark., Little Rock.—Arkansas Farms Co., recently reported incorporated with $50,000 capital stock, will develop property as farming section and for colonization; also deal in virgin and cut-over timber, etc.; T. B. Davis, president and general manager; R. K. Fitzhugh, vice-president; J. F. Wolfe, secretary-treasurer.

Ark., Little Rock.—Arkansas Realty & Development Co. incorporated with $100,000 capital stock by J. W. Conger, J. M. Langston, Jr., E. R. Wilson and Simon Whitestones.

Fla., Monticello.—Monticello Pecan Grove Co. incorporated with $240,000 capital stock; William A. Pridmore, president; Perry Ulrich, vice-president; Louis T. Orr, secretary; all of 100 Washington St., Chicago, Ill.; Alfred Pearson, treasurer, also of Chicago.

Fla., Sewall's Point.—Sewall's Point Land Co. organized with $300,000 capital stock; purchased tract of land on east coast of Florida and will develop town to be known as Port St. Lucie; portion of land will be platted in tracts of five acres or more for farm and garden purposes and residence section; 10 acres will be reserved for park and five acres on water-front for hotel; improvements will begin at once; will consist in construction of roads and streets, main avenue of which will be 100 feet wide and extend from river-front to western line of tract; new channel will also be constructed; other improvements will include erection of railway station, water, ice and lighting plant, telegraph and telephone, etc.; Hugh L. Willoughby, president; Jerome Twichell, vice-

president; James H. Rogers, secretary-treasurer and general manager. (Recently noted at West Palm Beach.)

Ga., Savannah.—Southland Forestry & Gardening Co. incorporated with $100,000 capital stock by C. J. Robinson and D. C. Talbott.

Ky., Louisville.—Union Real Estate Co. incorporated with $300,000 capital stock by Sidney Smith, Geo. W. Lewis, Geo. H. Lamkin and others.

La., Lafayette.—Paper Shell Pecan Nursery incorporated with $5000 capital stock; F. K. Hopkins, president; E. M. Stewart, vice-president; W. M. Ellison, secretary-treasurer.

La., Lake Charles.—Pomelo Plantation incorporated with $100,000 capital stock; Chas. A. Clark, president; A. R. Pifer, vice-president; N. P. Yantis, secretary-treasurer; acquired 1500 acres of land and will develop.

La., La Salle Parish.—James Gould, Pine Bluff, Ark., advises that land recently noted (under "Drainage and Irrigation") purchased by himself, Judge Edwards of Oklahoma City, Okla., and Adolph Rosedale, Enid, Okla., will be developed for colonization; acreage 30,000.

La., New Orleans.—Fidelity Land Co. purchased 87 acres of land on Metairie Ridge and will develop for residence park; construct boulevard 27 feet wide; subdivide property into 106 lots 25x100 feet, install electric lights, etc.

Md., Baltimore.—Kurringwass Fruit Co. incorporated by C. Chase Fudel of Baltimore, Robert Pennington and George C. Steigler, both of Wilmington, Del.; to cultivate tropical fruits.

Md., Baltimore.—Maryland Opportunities Co. incorporated with $3000 capital stock by J. Lester Wheeler, 3011 W. North Ave.; Frank W. Valient and Charles F. Mahn.

N. C., Gastonia.—S. W. Dandridge, president of S. W. Dandridge & Co., 114 Piedmont Bldg., Charlotte, N. C., advises that stock company with $125,000 capital is being formed to take over and improve recently noted 5000 acres of land surrounding Linwood College.

Okla., Okemah.—Southwestern Nursery Co. incorporated with $50,000 capital stock by C. M. Redmond, C. N. Potter and P. D. Peters.

S. C., Charleston.—Sea Island Orchard Co., 46-48 Broad St., incorporated with $10,000 capital stock; W. D. Johnson, president; G. D. Altman, secretary-treasurer; purchased 208 acres of land; has option on 3000 or 4000 acres additional; will subdivide portion into five-acre tracts and sell and cultivate balance for fig orchards.

S. C., Greenville.—Greenville Nursery Co. incorporated with $100,000 capital stock by D. W. Ebaugh, C. O. Allen, J. K. O'Neal and others.

S. C., Marion.—Sea Island Orchard Co. incorporated with $10,000 capital stock; will develop fig orchard; divide into five-acre tracts each; W. D. Johnson, president; C. D. Altman, secretary-treasurer; main office, Charleston, S. C.

Tenn., Memphis.—John Sevier Knight purchased 36 acres of land at Holmes and Sumter avenues for $35,000 and will, it is reported, develop.

Tenn., Memphis.—Montgomery Park Place Co. incorporated with $50,000 capital stock by C. W. Hunter, R. Graham Bostwick, Walter Hunter and others.

Tenn., Memphis.—Valley Farming Co. incorporated with $15,000 capital stock by W. W. Faulkner, C. A. Milroy, C. T. West, M. L. Hearne and others.

Tex., Beaumont.—Magnolia Fig Co. increased capital stock from $15,000 to $30,000.

Tex., Corpus Christi.—Texas Land Co. incorporated with $10,000 capital stock by H. H. Reed, J. F. Woodward, both of Corpus Christi, and H. W. Pentecost of Guthrie, Okla.

Tex., Fort Worth.—Kelsay-Hawes Realty Co. incorporated with $25,000 capital stock by L. L. Hawes, R. E. Kelsay and J. E. Caldwell.

Va., Alexandria.—Amherst Realty Co. incorporated with $50,000 capital stock; M. L. Emerick, president, Hickory Corner, Pa.; I. C. Matter, secretary-treasurer, West Fairview, Pa.

Va., Alexandria.—Sherwood Corporation incorporated with $100,000 capital stock; Alexander McNeil, president; C. H. St. John, vice-president, 1749 Lancier Pl. N. W.; Paul Dulaney, secretary-treasurer, Colorado Bldg., all of Washington, D. C.

Va., Norfolk.—Money Point Land Corporation incorporated with $50,000 capital stock; Fergus Reid, president, Norfolk; Wm. H. White, vice-president, Richmond, Va.; J. W. Willcox, secretary-treasurer, Norfolk.

Va., Norfolk.—Brandon Realty Co. incorporated with $25,000 capital stock; R. A. Dodson, president; L. B. Dodson, vice-president; E. G. Dodson, secretary-treasurer.

Va., Waynesboro.—Co-operative Commercial Orchard Co. incorporated with $100,000 capital stock; C. Louis Allen, president, Washington, D. C.; J. R. Kimler, vice-president; W. W. Glass, Jr., secretary, both of Waynesboro.

W. Va., Parkersburg.—Virginia Orchards Co. incorporated with $50,000 capital stock by Henry D. Dils, Sam M. Dils, Jr., Mentor Caldwell and others.

LUMBER MANUFACTURING

Ala., Birmingham.—Jay Smith Lumber Co. incorporated with $10,000 capital stock; Jay Smith, president; Edward S. Moore, secretary-treasurer.

Ala., Womack Hill.—D. O. Smith and C. W. Zimmerman, Mobile, Ala., will establish lumber plant; ordered $10,000 worth of machinery.

Ark., Branch.—Star Lumber Co. incorporated with $10,000 capital stock.

Ark., Gillett.—Bluffton Lumber Co., Bluffton, O., purchased 1250 acres of timber land; also acquired Wisdom & Cannon mill site and will install mill machinery, including handle factory.

Ky., Pike County.—Consolidation Coal Co. has begun erection of three sawmills to manufacture building materials for 1000 miners' dwellings, employes' hotel, etc., to be constructed in connection with development (previously detailed) of 100,000 acres coal land; executive office in Continental Bldg., Baltimore, Md.; Geo. C. Watson, vice-president, Fairmont, W. Va., in charge of construction.

La., Chachoula.—L. S. Boudreaux will erect sawmill to have daily capacity of 15,000 feet; construction begun under supervision of E. C. Cadden; machinery purchased.

La., Coushatta.—J. A. Leindecker will rebuild sawmill reported burned.

La., Pawnee.—Pawnee Land & Lumber Co. purchased Conrad Bering Lumber Co.'s plant and will erect band mill; contract has been let; sale of Conrad Bering Lumber Co.'s plant recently noted.

Md., Lonaconing.—James Merrill and William Metz purchased timber land and will erect sawmill.

Mo., Carthage.—Morrow-Taaffe Lumber Co. incorporated with $10,000 capital stock by S. O. Morrow, R. Taaffe and H. E. Robb.

Mo., Kansas City.—Burgner-Evans Lumber Co. incorporated with $30,000 capital stock by J. M. Burgner, J. E. Evans, R. W. Coleman and others.

Mo., St. Louis.—Koerner Lumber Co. incorporated with $6000 capital stock by Charles Ziegenfuss, Gustave Koerner and Philip Koerner.

N. C., Charlotte.—Blue Ridge Lumber Co. incorporated with $100,000 capital stock by C. H. Robinson, J. M. Harry and others.

N. C., Durham.—Hardwood Log & Lumber Co. incorporated with authorized capital stock of $100,000; purchased 2000 acres standing timber in Chatham county; L. James, president; R. J. Teague, vice-president; W. J. Dunsford, secretary-treasurer; offices with James Lumber Co., Loan & Trust Bldg.

N. C., Greensboro.—Yellow Pine Lumber Co. incorporated with $25,000 capital stock by E. R. Wharton and others.

N. C., Clarkton.—J. W. Lambeth and C. C. Shaw, Thomasville, N. C., purchased timber rights on 800 acres of land; estimated to cut 4,000,000 to 5,000,000 feet of lumber; will establish saw and planing mill.

N. C., Hot Springs.—Laurel River Logging Co., Ansen Betts, president, Troy, N. Y., contemplates early development of 40,000 acres of timber land in Madison county and about 6000 acres on Tennessee side; property is estimated to cut 75,000,000 feet of white pine and 45,000,000 feet of poplar; at present company has mills at Reunion and Pounding Mill, and proposes to begin active and enlarged operations in April; 10-mile railroad from Reunion to Tennessee line under construction.

N. C., Washington.—Pamlico River Lumber Co. incorporated with $25,000 capital stock by L. E. Everett, P. A. Nicholson and L. H. Mann.

Okla., Collinsville.—Union Lumber Co. incorporated by J. H. Middleton, Marion McCarty and T. C. McCarty.

Okla., Collinsville.—Union Lumber & Supply Co. incorporated with $10,000 capital stock by J. H. Middleton, Marvin McCarty and C. T. McCarty.

South Carolina.—John Lochrie, Windber, Pa., sold, it is reported, 10,000 acres of timber land on border of South Carolina and Georgia to New York capitalists, who will undertake development.

Tenn., Knoxville.—Knoxville Veneer Co. incorporated with $25,000 capital stock by H. B. Lindsay, Charles Smith, W. J. Donaldson, E. Carson and R. S. Young.

Tenn., South Pittsburg.—Haskew Lumber Co. will double capacity of plant; addition to main building by R. B. Patton, contractor; rip and cut-off saws will be installed in addition; boiler will be installed in boilerhouse.

Tex., Beaumont.—Christopher Manufacturing & Lumber Co. incorporated with $25,000 capital stock by F. E. Howard Newcombe, T. E. Christopher and J. C. Christopher.

Tex., Fort Worth.—Ward & Isbell Lumber Co., recently noted to increase capital stock to $150,000, will conduct line of retail yards; will not manufacture; W. B. Ward is president.

Tex., Houston.—South Texas Lumber Co. incorporated with $100,000 capital stock by R. M. Farrar, N. E. Meador and A. D. Timmons.

W. Va., Leet.—B. Johnson & Son, Richmond, Ind., purchased 4000 acres of timber land and will develop.

MINING

Ark., Sylvatus—Iron.—N. J. Worrell will develop iron-ore deposits on Little Deed Island.

Ga., Union City—Granite.—Greater Georgia Development Co., J. H. Harris, vice-president, will open granite quarry. (See "Machinery Wanted.")

La., Orange—Gold, etc.—Big Four Mining Co., C. P. Tate, president, recently noted incorporated with $100,000 capital stock, will develop 1700 acres of gold, silver and lead deposits in Vernon county.

Mo., Carthage—Lead and Zinc.—Great Western Mining Co. incorporated with $100,000 capital stock by J. H. Millard, G. A. Gibson, H. T. During and others.

Mo., Joplin—Lead and Zinc.—Katie Lou Mining Co. incorporated with $30,000 capital stock by E. W. Lee, F. L. Cox, C. W. Squires and others.

Mo., Purdy—Lead and Zinc.—Jersey Fissure Mining Co. incorporated with $100,000 capital stock by J. J. Purdy, H. C. Crawford, A. D. Foote and others, all of Joplin, Mo.; will develop lead and zinc properties near Purdy.

Mo., Foristell—Marble.—Fred Schrader, St. Louis, Mo., has opened quarry for development of Carthage and gray Tennessee marble.

Mo., Granby—Lead and Zinc.—Granby Mining & Smelting Co. will rebuild concentrating mill reported burned; loss $25,000.

Mo., St. Louis—Lead and Zinc.—Parole Mining & Mercantile Co. incorporated with $65,000 capital stock by D. A. P. Cook, Ralph Simpkins and H. J. Cantwell.

N. C., Siloam—Limestone.—Yadkin Lime Co. has purchased machinery for works on Southern Railroad, 30 miles above Winston-Salem, where office is established; 100 acres to be developed; daily capacity 100 tons pulverized limestone; president, A. J. Wellington, Boston, Mass.; vice-president, Chas. K. Messick, Charlotte, N. C.; A. F. Messick, Winston-Salem, secretary, treasurer and acting office manager. (Previously noted.)

Tenn., Campbell County—Onyx.—Crystal Onyx Co. organized; A. W. Farlonger, president; E. C. Thrash, vice-president; B. W. Torrence, secretary-treasurer, all of Atlanta, Ga.; will develop 300 acres of onyx in Campbell county.

Tenn., Chilhowee.—Chilhowee Mountain Mining & Manufacturing Co. incorporated with $250,000 capital stock by Wallace Miller, J. F. Brittain, John B. Brittain and others.

Tenn., Knoxville—Marble.—Appalachian Marble Co., S. F. Kries, president (recently noted to develop marble properties) is proceeding with erection of 60x120-foot mill; be in operation by March 1; equipment mainly supplied; will install diamond saw, polishers, planers, etc., for marble; marble to be transported from quarry, distance of eight miles, by tramroad to river, and then by boat or rail to mill. (See "Machinery Wanted.")

Va., Falls Church.—Waller Mining Corporation chartered with $500,000 capital stock; president, Horace E. Brown; vice-president, H. Scott Ryer, both of Falls Church; secretary, C. D. Garrett of Washington, D. C.

Va., Orange and Spottsylvania Counties—Gold and Silver.—Mrs. Mildred Cook of Fredericksburg, Va., purchased Melville gold mine in Orange and Spottsylvania counties, containing 1000 acres; will develop gold and timber properties.

Va., Pulaski—Iron.—W. E. Kinsey and Charles A. Shelor of Rapid Transit Development Co., Tribune Bldg., New York, will develop 23 acres of red oxide of iron deposits recently noted; subsidiary company will be organized with W. E. Kinsey, president, and Charles A. Shelor, secretary; plant will be erected either at Snowville or Roanoke, Va. (See "Machinery Wanted.")

Va., Pulaski.—Forney Mining Co. incorporated with $25,000 capital stock; R. M. Lawson, president, Burkes Garden, Va.; D. S. Forney, vice-president, Pulaski; M. M. Caldwell, secretary-treasurer, Roanoke, Va.

MISCELLANEOUS CONSTRUCTION

Ala., Mobile—Dredging.—Southern Railway, D. W. Lum, chief engineer, Washington, D. C., awarded contract to Home Dredging Co., Mobile, for removal of several thousand cubic yards of bottom from river at south side of Mallory wharf; present average depth of 16 feet will be increased to minimum depth of 23 feet.

Fla., Palm Beach—Dock.—City Council authorized issuance of $55,000 of bonds for dock, sewer and street improvements. Address The Mayor.

Ga., Augusta—Fishway.—City will construct reinforced concrete fishway over dam at locks; bids opened February 9; Nisbet Wingfield, City Engineer. (See "Machinery Wanted.")

La., Madison Parish—Levee.—Board of State Engineers, New Orleans, La., will award contract February 21 for construction of Mascot levee, to extend along right bank of Mississippi River for two miles in Madison parish; will require about 402,000 cubic yards of filling; average net fill about 18 feet.

Md., Baltimore—Pier.—Board of Estimates approved plans as prepared by Oscar F. Lackey, harbor engineer, City Hall, for recreation pier at foot of Broadway; assessed value of land, $154,981; assesed value of buildings, $49,375; dredging, $58,000; bulkhead, $150,000; lower deck, $125,000; upper deck, $90,000; total cost about $627,356. (Recently mentioned.)

Md., Baltimore—Pier.—Baltimore Steam Packet Co., John R. Sherwood, president, Barre and Light Sts., will rebuild superstructure of offices and tower on new Light-street pier (reported burned); plans new structure to be few feet longer than burned building, covered with copper, and erect tower in center, with illuminated clock.

Miss., Greenville—Levees.—Mississippi Levee Commissioners awarded three contracts to Roach & Stansell, Memphis, Tenn., for enlargement of levees, requiring removal of 672,000 cubic yards of dirt at aggregate cost of $184,600: Miles Place enlargement, 42,000 cubic yards of work, at 15 cents per cubic yard, location near Rosedale; Huntington Shore Line enlargement, about 15 miles north of Greenville, at 30.2 cents per cubic yard, about 500,000 cubic yards; Refuge enlargement, about 12 miles below Greenville, 130,000 cubic yards, at 21 cents per cubic yard.

Tex., Chapel Hill—Levees.—Washington County Improvement District No. 1 will construct about 10 miles of levees and install floodgates in Brazos bottom; bids will be received until March 2; J. M. Howe, 722 First National Bank Bldg., Houston, Tex., is engineer; J. F. Buchanan is chairman of District Commissioners. (See "Machinery, etc., Wanted.")

Tex., Port Arthur—Pleasure Pier.—Port Arthur Pleasure Co., John W. Fryor, president, will be incorporated to build pleasure pier; plans not completed. (Recently noted.)

Va., Colonial Beach—Pier.—Colonial Beach Co. will construct $30,000 pier.

MISCELLANEOUS ENTERPRISES

Ala., Birmingham—Automobiles.—Buick Motor Co., Birmingham Branch, incorporated with $2000 capital stock; R. V. Connerat, president, Atlanta, Ga.; D. C. Van Duzen, manager; J. B. Caber, secretary; both of Birmingham.

Ala., Birmingham—Asphalt Paving, etc.—Southern Asphalt & Construction Co., J. R. Copeland, president, 626 First National Bank Bldg. (recently reported incorporated with $5000 capital stock), has purchased asphalt and will contract to pave streets; will erect no building.

D. C., Washington—Contracting.—Beale & Meigs Company incorporated with $10,000 capital stock; Harry Wardman, president; Thomas Bones, treasurer, both of 1342 New York Ave. N. W.; O. L. Meigs, engineer, 902 F St. N. W., all of Washington; Carroll Beall, manager, Chevy Chase, Md.

D. C., Washington—Contractors.—Harper & Voigt Company, 819 17th St. N. W., incorporated with $50,000 capital stock by Frank Ellis, Frank H. Ellis, Henry Voigt and J. Donald Cassels.

Fla., Tampa—Garage.—A. R. Swann has plans by Jay & Larmer, Tampa, for garage; brick; two stories; 69x105 feet; cost $10,000.

Fla., Tampa—Machinery, etc.—Ulmer Machinery Co. incorporated with $15,000 capital stock; M. W. Ulmer, president; D. C. McMullen, vice-president; C. R. Morrison, secretary-treasurer.

Ga., Athens—Garage.—Mutual Garage Co. incorporated by S. T. Hood, A. C. Holliday, L. F. Edwards and others.

Ga., Macon—Automobiles, etc.—Standard Automobile & Machinery Co. incorporated with $20,000 capital stock by J. Saunders, Ben C. Smith, R. C. Houser and others.

Ga., Macon—Garage.—W. G. Lee will erect garage.

La., Shreveport—Construction.—Magnolia Construction Co. incorporated with $50,000 capital stock; C. W. Hardy, president; R. B. Steven, vice-president; Grant Forbes, secretary; Q. M. Roberts, treasurer.

Md., Baltimore—Canners' Supplies.—Canners & Packers' Supply Co. incorporated by Henry A. Schleuns, 205 Hanover St.; William $10,000 capital stock by C. W. Gibson, C. R.

Md., Baltimore—Publishing.—Eastern Publishing Co. incorporated with $4500 capital stock by Philip Sachs, 818 Equitable Bldg.; Israel B. Brodie, 2337 Druid Hill Ave., and John Henry Skeen, 920 Equitable Bldg.

Md., Cumberland—Laundry.—G. H. McCracken, proprietor of Union Laundry, will erect laundry building adjoining present structure; brick; also office, wagon sheds and water reservoir; will install modern machinery, washers, driers, electric ironers, etc.; cost $25,000.

Md., Hagerstown—Amusement Resort.—Hagerstown Electric Park Co. incorporated with $5000 capital stock by Wilbur J. Bragonier, Charles W. Wolfensberger and Daniel C. Gilbert; will establish amusement resort.

Miss., Meridian—Shoe-polishing Machines. Mississippi Automatic Machine Co., previously reported incorporated with $30,000 capital stock by J. B. Gough of Ellisville, Miss., and others, will not erect plant; will manufacture by contract.

Mo., Kansas City—Laundry.—Gillpatrick Laundry Co. incorporated with $10,000 capital stock by H. H. Gillpatrick, J. F. Gillpatrick and others.

Mo., Kansas City—Hardware.—Faeth Icon Co. increased capital stock from $225,000 to $350,000.

Mo., St. Joseph—Seeds.—Farber Seed Co., 731 S. 4th St. (recently reported incorporated with $15,000 capital stock), will continue established business; has building and machinery; J. B. Farber, president and manager; M. P. Graham, vice-president; Horace Stringfellow, secretary.

Mo., St. Louis—Lithographing.—Foerstel Lithographing Co. incorporated with $5000 capital stock by Anthony J. Foerstel, Joseph Foerstel, Wm. J. Foerstel and others.

Mo., St. Louis—Contracting.—Murphy Contracting Co. incorporated with $5000 capital stock by Daniel Murphy and others.

Mo., St. Louis—Metals.—E. R. Hensel Steel & Copper Co. incorporated with $10,000 capital stock by E. R. Hensel, S. M. Hensel and A. Burmeister.

N. C., Albemarle—Laundry.—Albemarle Steam Laundry Co. will erect annex, double capacity of plant, install additional machinery and establish cleaning and dyeing departments; construction begun.

N. C., Charlotte—Plaster.—Charlotte Plaster Co. will rebuild plant reported burned; character of construction not decided; to operate by electricity; will install new machinery. (See "Machinery Wanted.")

N. C., Charlotte—Painting, Decorating, etc. Brown-Cruse Company organized by L. G. Cruse and C. C. Brown to do general contract painting and interior decorating.

N. C., Charlotte—Steam Laundry.—Charlotte Steam Laundry Co. awarded contract to Goode Construction Co., Charlotte, for erection of laundry; 150x150 feet; one story and basement; concrete construction; reinforced concrete floors; cost $29,000; plans by Louis H. Asbury, Charlotte. (Recently noted.)

N. C., Salisbury—Granite Polishing.—Geo. R. Collins is president of company which will establish granite-polishing plant; erect work shop 300x60 feet and office; cost of buildings and equipment $15,000.

N. C., Thomasville—Hardware.—Thomasville Hardware Co. incorporated with $25,000 capital stock by C. C. Moore, C. A. Moore, C. J. Tinsley and others.

N. C., Winston-Salem—Printery.—Stewart Bros. have plans for additional story to plant and plan installation of additional equipment.

Okla., Alva—Hardware.—Capron Hardware Co. incorporated with $10,000 capital stock by A. A. Fisk, W. D. Anderson and Ray Heald.

Okla., Cleveland—Publishing.—Cleveland Leader awarded contract for erection of newspaper plant; 50x25 feet; brick; plate-glass front; will install power press and other printing equipment.

Okla., Oklahoma City—Hardware.—Oklahoma City Hardware Co. increased capital stock to $200,000.

Okla., Oklahoma City—Garage.—Francis & Hackney will erect garage and hotel building; three stories; 50x120 feet; cost $20,000; lower floor for garage and upper floors for hotel.

Okla., Oklahoma City—Undertaking.—Marshall-Harper Undertaking Co. will erect building at 1010 N. Broadway; three stories and basement; algonite stone and brick; chapel on second floor to seat 200; elevators; cost $40,000.

Okla., Tishomingo—Grain.—Tishomingo Grain Co. incorporated with $5000 capital stock by T. C. Ware, J. W. Chapman, A. Rennil and H. W. Seely.

Okla., Tulsa—Amusement Park.—Charles Page will establish proposed amusement park; erect dancing pavillion, install zoological garden and construct lake to cover 40 acres; plans for dam now being made and contract will be let soon; also contemplates erection of sanitarium.

S. C., Spartanburg—Supplies.—Palmetto Supply Co. incorporated with $25,000 capital stock; George Shanklin, president; T. M. Evins, secretary-treasurer. (See "Machinery Wanted.")

S. C., Spartanburg.—Mrs. L. Neel Veenon will erect garage for Spartanburg Automobile Co.; one story; brick; 112x75 feet; cement floor.

Tenn., Lexington—Steam Laundry.—Lexington Steam Laundry Co. incorporated with $5000 capital stock by C. P. Wilson, G. R. Crasswell and Nathe Owen.

Tenn., Memphis—Construction.—Story-Duffield Construction Co. incorporated with $25,000 capital stock by F. C. Story, K. G. Duffield, J. W. Hull and others.

Tex., Belton—Hardware.—Belton Hardware Co. incorporated with $10,000 capital stock by W. L. Mitchell, Gordon Shankland and W. W. James.

Tex., Beaumont—Distributing Plant.—Josey Miller Grain Co. will erect building to be leased to National Biscuit Co. of New York for distributing plant; brick construction; 50x120 feet; cost $15,000.

Tex., El Campo—Hardware.—Smith-Evans Hardware Co., recently reported incorporated with $25,000 capital stock, will deal in hardware, implements, wagons and buggies; erect no building; C. M. Hudson, president; E. R. Smith, vice-president and manager; J. E. Evans, secretary-treasurer.

Tex., El Paso—Laundry.—Elite Laundry Co. incorporated with $20,000 capital stock by P. F. Knight, A. J. Allcock and J. W. Parker.

Tex., Beaumont—Creosoting Plant.—International Creosoting & Construction Co., F. L. Lee, president, Galveston, Tex., will use company's force in rebuilding Beaumont plant recently partially destroyed by fire; fireproof building; cost not decided; plant probably in operation by March 1.

Tex., Fort Worth—Grain Elevator.—Empire Grain Co. of Texas (recently reported incorporated with $40,000 capital stock) has not completed organization; has building; daily capacity, handling 20 cars in and out and 1000 sacks of chops.

Tex., Ganado—Printery.—Jackson County Printing Co. incorporated with $45,000 capital stock by Geo. T. Everett, James McMurry and T. G. Moffett.

Tex., Houston—Steamship.—Texas Banana & Steamship Co. incorporated with $50,000 capital stock by Travis Holland, M. H. Jacobs and E. K. Keegh.

Tex., Laporte—Resort.—W. W. Porterfield and R. C. Jackson of Silver City, N. M., purchased Sylvan Beach and will, it is reported, expend $50,000 for improvements.

Tex., Llano—Garage.—Frank Gray awarded contract to Jernigan & Shults, Llano, to erect garage; 35x100 feet; cement blocks; construction begun.

Tex., Rockport—Fish and Oysters.—Rockport Fish & Oyster Co. incorporated with $10,000 capital stock by C. W. Gobson, C. R. Gibson and others.

Va., Irvington—Publishing.—Virginia Citizen will erect newspaper plant.

Va., Richmond—Automobiles.—Eastern Motor Sales Corporation incorporated with $15,000 capital stock; Jos. F. Leonard, president; R. B. Allport, vice-president; John B. Swartwout, secretary-treasurer.

Va., Warrenton—Automobile.—Warrenton Automobile Co. incorporated with $5000 capital stock; D. P. Wood, president; J. D. Richards, secretary; O. B. Calohan, treasurer; P. C. Richards, general manager.

W. Va., Newburg—Supplies.—Newburg Supply Co. incorporated with $15,000 capital stock by J. Ray Smoot, J. B. Dawson, Sr., J. W. Kimble and others.

W. Va., Wellsburg—Dairy.—Wellsburg Dairy Products Co., corner E and High Sts. (recently reported incorporated with $10,000 capital stock), has leased building and will conduct retail and wholesale dairy; will install machinery; C. H. Robinson, president and manager; Charles Patterson, secretary-treasurer. (See "Machinery Wanted.")

MISCELLANEOUS FACTORIES

Ala., Bay Minette—Syrup.—Farmers' Gin Co. will establish syrup refinery, cotton gin and grist mill.

Ala., Birmingham.—Cottonseed Cullers.—Cottonseed and Improvement Association incorporated by Charles D. Pantaze and others; to manufacture cottonseed culler; offices in Empire Bldg.

Ala., Birmingham—Bakery.—American Bakeries-Candies Co. will erect one-story brick building and repair present structure; cost $4000.

Ala., Montgomery—Soap.—M. B. Kendrick & Co. of Cincinnati, O., will establish soap factory.

Ala., Oneonta—Bottling.—Lee Vaughan and John Dill of Asheville, Ala., leased building and will equip for bottling plant.

Ala., Tunnel Springs—Turpentine.—Tunnel Springs Turpentine Co. incorporated with $10,000 capital stock by L. I. Brannan, J. M. Dennis, H. M. Bailey and E. L. Sinclair.

Ark., Alma—Soap.—Alma Soap Manufacturing Co. organized with $20,000 capital stock to establish soap factory.

Ark., Fort Smith—Spring Beds and Mattresses.—Acme Spring Bed & Mattress Co. contemplates improvements to plant.

Ark., Helena—Gas Plant.—Helena Gas & Electric Co. (recently reported incorporated with $300,000 by Claude Fitzpatrick and others) acquired gas and electric plants of Helena Gas Co.; will, it is reported, install additional machinery.

Ark., Rogers—Marble and Granite Works.—Rogers Marble and Granite Works organized by D. E. Bigelow of Claremore, Okla., and D. E. Ford of Bentonville, Ark.; will establish plant.

D. C., Washington—Ice-cream.—Chapin-Sacks Manufacturing Co., 1st and M Sts. N. E., has plans by and awarded contract to F. J. Tansey, 56 R St. N. E., Washington, for repairing building at 1st and Patterson Sts. N. E.; cost $2500.

D. C., Washington—Shoe Supplies.—United Heel Co. incorporated with $100,000 capital stock by C. H. Ferrell, The Columbia; A. W. Hall, Evans Bldg., and others.

D. C., Washington—Aeroplanes.—Rex Smith Aeroplane Co., Victor Bldg., recently reported incorporated (at Hyattsville, Md.) with $500,000 capital stock, awarded contract to Charles M. Lightbown, Mount Ranier, Md., for erection of 40x75-foot building; fireproof construction; Victor J. Evans, president; Rexford M. Smith, vice-president; Hugh M. Sterling, secretary; C. A. M. Wells, treasurer.

Fla., Tampa—Cigars.—Streeter, Fernandez & Co. incorporated with $50,000 capital stock; B. M. Balbontin, president; Antonio Fernandez, vice-president; W. H. Streeter, secretary-treasurer.

Ga., Atlanta—Remedies.—Simmons Remedy Co. incorporated with $150,000 capital stock by T. E. Simmons, E. Z. Pharr, Atlanta, and E. J. May.

Ga., Columbus—Paper Trays, etc.—Wolfson Tray Co. incorporated with $15,000 capital stock by Leon B., Dan R. and J. W. Wolfson.

Ga., Macon—Beverages.—Bludwine Bottling Co., 461 1st St. (recently noted incorporated with $25,000 capital stock), will manufacture 100 cases bottled goods daily; Fred E. Boston, president and manager.

Ga., Macon—Wood-pulp Products, etc.—Standard Turpentine & Wood Pulp Co., O. M. Grady, general manager (recently noted incorporated with $600,000 capital stock to manufacture turpentine, rosin and wood-pulp products), is having plans prepared for 200x500-foot building; boiler-room of concrete; fireproof; other buildings will probably be galvanized corrugated iron; date of opening bids not set; daily capacity, 50 cords pine timber. (See "Machinery Wanted.")

Ga., Macon—Bolts.—Reeves Bolt Co. incorporated with $10,000 capital stock by F. B. Stubbs, F. W. Armstrong, both of Macon, and others.

Ga., Savannah—Rosin, Turpentine, etc.—Chatham Manufacturing Co. will erect retorts and skeleton-frame buildings covered with corrugated iron for manufacturing rosin, etc.

Ky., London—Candy.—Roscoe Eversole and William Feitner will establish candy factory.

Ky., Louisville—Distillery.—Stitzel Distilling Co. incorporated with $100,000 capital stock by Arthur P. Stitzel and others.

La., Monroe—Watch Dials.—Ferguson Watch Dial Co. incorporated with $250,000 capital stock; L. B. Ferguson, president and treasurer; Geo. Swartz, vice-president; D. T. Miles, secretary; will manufacture patented watch dial invented by Mr. Ferguson.

La., New Orleans—Brewing.—Union Brewing Co. is having plans revised by Toledano & Wogan, New Orleans, for brewery. (Recently described.)

La., New Orleans—Surgical Instruments.—McDermott Surgical Instrument Co., 316 St. Charles St., purchased building at 736 Poydras St.; will remodel and equip for manufacturing surgical instruments.

Md., Baltimore—Stock Food.—Stock Food Products Co. incorporated with $10,000 capital stock by Leslie A. Smelser of New Windsor, Md.; Claude Worthington, 817 N. Carey St., and Edward C. Kestler, both of Baltimore.

Md., Baltimore—Automobiles.—Schanken Bros. Manufacturing Co. incorporated with $300,000 capital stock by William Schanken, 2400 Wilkins Ave.; Emil A. Schanken, 2402 Wilkins Ave., and others; to manufacture and deal in motor vehicles.

Md., Baltimore—Clothing.—Hesson & Bowling Company incorporated with $20,000 capital stock by William F. Bowling, 20 W. 20th St.; A. M. Bowling, Washington Apartments, Mt. Vernon Pl., and Charles E. Hesson, 2223 Madison Ave.

Md., Darlington—Creamery.—Darlington Co-operative Creamery will establish plant on William Thompson's farm.

Md., Sharptown.—Sussex Manufacturing Co. incorporated with $25,000 capital stock by Joseph P. Cooper, Ned R. Bounds and Alexander H. Lord.

Miss., McComb—Creamery.—Magnolia Creamery organized by F. H. Lotterhos, Hugh L. White, J. W. Johnson and others; will establish creamery; begin operations with 250 milch cows.

Mo., Kansas City—Corn and Nut Food.—Corn & Nut Food Co. incorporated with $750 capital stock by J. A. Becktel, I. S. Horne and others.

Mo., Kennett.—Laplanta Manufacturing Co. incorporated with $10,000 capital stock by F. Grismore, C. Demars and E. M. Demars.

Mo., Boonville—Pipes.—Phoenix-American Works, Washington, Mo., will establish plant to manufacture corncob pipes; will erect four-story factory building 50x150 feet and warehouse.

Mo., Kansas City—Bakery.—Consumers' Bread Co. will erect bakery; reinforced concrete and brick; five stories; 160-foot frontage; cost $100,000

Mo., Kansas City—Motor Trucks.—Rapid Reliance Motor Truck Co. incorporated with $20,000 capital stock by H. C. Shimp, Herbert G. Shimp and F. V. Shimp.

Mo., Kansas City—Mill Supplies.—Gustin-Bacon Manufacturing Co. increased capital stock from $60,000 to $80,000.

Mo., St. Louis—Calculating Machines.—Goss Acrey Calculator Co. incorporated with 100,000 capital stock by W. B. Acrey, B. L. Acrey, Geo. W. Goss, C. J. Fisher and others.

Mo., St. Louis—Drugs.—Red Cross Drug Co. incorporated with $100,000 capital stock by Evan Smith, Henry C. Ostertag, Nat Steiner and others.

Mo., St. Louis.—Ward Manufacturing Co. incorporated with $10,000 capital stock by Willis E. Ward, John D. Moore and Jackson Guthrie.

Mo., Lee's Summitt.—Mill & Implement Co. incorporated with $8000 capital stock by John S. Amyx, Wm. T. Campbell and others.

Mo., St. Louis—Candy.—Audubon-Barneau Candy Co. incorporated with $100,000 capital stock by Henry C. Barneau, Paul W. Taylor, Charles Kraft and others.

Mo., St. Louis.—Modern Capital Manufacturing Co. incorporated with $25,000 capital

stock by A. J. Movason, Frank Wenturna and M. J. Movason.

Mo., St. Louis—Novelties.—General Novelty Manufacturing Co. incorporated with $15,000 capital stock by Frank Bishop, Donald H. C. O'Neil and H. A. Barker.

Mo., St. Louis—Railway Equipment.—Howett Manufacturing Co. incorporated with $10,000 capital stock by Wilbur E. Howett of St. Louis, George Barnett of Webster Groves, Mo., and others; will not erect new factory at present.

N. C., Greensboro—Granite and Marble Works.—Englehart Marble Works incorporated with $50,000 capital stock by Clark H. Englehart, Wm. Z. Brown, John E. Matthews and Robert D. Douglass.

N. C., Hickory—Textile Novelties.—L. Flagler purchased interest of J. H. Hice in Ivey & Hice Company; will increase capital stock and capacity.

N. C., Washington—Brooms.—W. B. Walling is interested in establishment of broom factory.

Okla., Dewar—Miners' Supplies.—Miners' Supply Co. incorporated with $50,000 capital stock by J. Koffman of Kansas City, Mo.; J. D. Sweet of Dewar, and others.

Okla., Muskogee—Tools, etc.—Eagle Manufacturing Co. incorporated with $200,000 capital stock by Tams Bixby, A. C. Trumbo, J. H. Mosier and others.

Okla., Muskogee—Artificial Stone.—Industrial Development Co. is interested in establishment of plant by Ham P. Bee and associates to manufacture artificial stone; will erect five buildings.

Okla., Oklahoma City—Acetylene-gas Plants. Oklahoma Light Manufacturing Co. will establish plant to manufacture acetylene and other gas lights and fixtures; will erect brick building 25x100 feet; two stories; cost $25,000.

Okla., Oklahoma City—Paints, etc.—Western Manufacturing Co. incorporated with $3000 capital stock by Homer Dunlop, Henry Knight and J. D. Edmiston; will establish plant to manufacture paints, varnishes and floor polishes.

Okla., Oklahoma City—Rubber Goods.—Oklahoma Rubber Co. organized with $400,000 capital stock by J. A. Swinehart (general manager) of Akron, O.; H. E. Swan and C. E. Zahn, both of Oklahoma City; will erect $25,000 building and install $80,000 worth of machinery for manufacturing rubber goods.

Okla., Tulsa—Glass.—Tulsa Glass Manufacturing Co. will expend about $250,000 for additions and improvements, including installation of furnace for manufacturing white glass globes.

S. C., Georgetown—Medicine.—Duffy Medicine Manufacturing Co. incorporated with $30,000 capital stock by R. L. Duffy and J. Ward.

S. C., Greenville—Hardware, etc.—Markley Hardware & Manufacturing Co. increased capital stock from $150,000 to $250,000.

Tenn., Greenville—Brooms.—Greenville Broom Factory, P. E. Cox, president (recently noted) will open bids March 1 for erection of $2000 building; mill construction; cost of machinery, $1500; daily capacity, 75 dozen brooms.

Tenn., Humboldt—Water Motor.—I. H. Dungan plans organization of company to manufacture patented floating water motor to develop power.

Tenn., Jackson.—Williams-Vincent Chemical Co. organized with $10,000 capital stock by W. H. Williams, W. A. Vincent and others; will establish plant on Liberty St. to manufacture drugs, chemicals, etc.

Tenn., Knoxville—Electric Signs.—Greenwood Advertising Co. is having plans prepared by R. F. Graf & Sons, Knoxville, for factory building; four stories; red pressed brick; site 60x141 feet; mill construction; steam heat; hand elevator; cost $15,000.

Tenn., Memphis—Paints, etc.—De Soto Paint Manufacturing Co. incorporated with $50,000 capital stock by S. T. Carnes, T. F. Lilly, J. E. Beasley, W. E. McGehee and others.

Tenn., Memphis—Beehive Factory Plant.—Ferguson Building Co., 418 Scimitar Bldg. (previously noted incorporated with $200,000 capital stock by L. M. Weathers and others), will expend $135,000 to erect beehive factory plant building; 92x112 feet; 12 stories; fireproof; reinforced concrete construction; low-pressure steam heat; electric lighting; concrete sidewalks; electric elevator; plans by Weathers-Foley Company, Memphis; contract awarded to Jefferson Construction Co., New Orleans, La.; heating contract also let; construction now progressing. (Previously reported.)

Tenn., Nashville—Automobiles.—Southern Motor Works will increase capacity of plant from 10 to 35 finished automobiles per week; also manufacture commercial automobiles and establish agencies at St. Louis, Mo.; Memphis, Tenn., and Atlanta, Ga.

Tenn., Nashville—Adding Machines.—National Adding Machine Co. incorporated with $15,000 capital stock by Charles Wales, J. G. Woodward, R. H. Hardwood and others. (Recently noted.)

Tenn., St. Elmo—Medicines.—Chattanooga Medicine Co. awarded contract to D. F. Brandon, Chattanooga, Tenn., for erection of two-story factory building; 125x47 feet; metal siding; composition roof; cost $4200.

Tex., Cameron—Creamery.—Men's Business Club is interested in establishment of creamery.

Tex., Corsicana—Creamery.—S. H. Whitley, B. M. Hornbeak, Frank Holmes and Lowry Martin are promoting establishment of creamery.

Tex., Giddings—Creamery.—Giddings Creamery Co. will increase capital stock from $3000 to $5000, make improvements to plant and establish ice-cream factory later.

Tex., Miles—Brooms.—A. M. Brown will establish broom factory with weekly capacity of 500 dozen brooms.

Tex., San Antonio—Gas Plants.—San Antonio Gas & Electric Co. plans extensive improvements to plants.

Tex., Texarkana—Peanuts.—James Hubbard of Bowie county and Paul E. Williams of Paris, Tex., are organizing Williams-Hubbard Peanut Factory with $20,000 capital stock to establish peanut factory with daily capacity of 1000 bushels of peanuts; will erect $10,000 building.

Va., Lynchburg—Gloves.—Louis P. Schlamb, 319 Brooke St. (recently noted to establish glove factory) has leased 24x60-foot building and will install machinery; cutting capacity, 600 dozen; output, 125 dozen per day. (See "Machinery Wanted.")

Va., Richmond—Ice-cream.—Purity Ice Cream Corporation incorporated with $100,000 capital stock; A. A. Chapin, president; S. C. Redman, vice-president; Chas. Ross, secretary-treasurer.

Va., Petersburg—Gas Plant.—Petersburg Gas Co. will expend $60,000 for improvements.

Va., Petersburg—Steel Safes.—E. Eigenbrun is interested in establishment of factory to manufacture steel safes.

Va., Richmond—Invalid Bed Chairs.—Mayo Supply & Manufacturing Co. incorporated with S. P. Mayo president, P. C. Scofield vice-president, T. N. Kendler treasurer, J. A. Kendler secretary.

Va., Richmond—Beverages.—Southern Birch Beer Co. incorporated with $5000 capital stock; Geo. A. Boehling, president; Alexander Hagen, vice-president; W. H. Moseley, secretary-treasurer.

W. Va., Wheeling—Automobiles.—Auto Car Co. incorporated with $10,000 capital stock by E. R. Romine, John P. Arbenz, Ed F. Hartzmann and others.

W. Va., Cameron—Gas Plant.—Manufacturers' Gas & Electric Light Co. incorporated with $25,000 capital stock by Vriar Monroe, C. E. Lancaster, H. H. Pipes, J. G. Crawford and others.

W. Va., Wheeling—Chewing-gum.—Wheeling Gum Co. incorporated with $250,000 capital stock by John A. Rennard, A. G. Hubbard, H. Lee Dailey and others.

RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, SHEDS, ETC.

Ark., Helena.—St. Louis, Iron Mountain & Southern Railway, M. L. Byers, chief engineer maintenance of way, St. Louis, Mo., will, it is reported, construct terminal.

Tenn., Altonpark.—Chattanooga Southern Railway Co. will erect car barns and shops; will use about 1,000,000 bricks; C. H. Fisk, chief engineer, Chattanooga, Tenn.

West Virginia.—Baltimore & Ohio Railroad, Francis Lee Stuart, chief engineer, Baltimore, Md., will install 11 interlocking plants in West Virginia; electro-mechanical machines will be installed at Sleepy Creek, Sir John's Run, Hancock, Great Cacapon, Orleans Road, Hardmon and West End. F. P. Patenall, signal engineer, Baltimore, will supervise work.

W. Va., Princeton.—Virginian Railway, H. Fernstrom, chief engineer, Norfolk, Va., contemplates erecting additional buildings and making various improvements to its shop and yard facilities.

ROAD AND STREET WORK

Ala., Cullman.—City will engage engineer to begin survey for construction of sidewalks and will then advertise for bids; M. L. Robertson, Mayor. (Recently noted.)

Ark., Little Rock.—Government will pave alley on north side of U. S. postoffice and courthouse; bids will be received until February 27; James Knox Taylor, supervising architect, Treasury Department, Washington, D. C. (See "Machinery Wanted.")

Fla., Palm Beach.—City Council authorized issuance of $55,000 of bonds for street, dock and sewer improvements. Address The Mayor.

Fla., Pensacola.—Board of Bond Trustees, John A. Merritt, chairman, will construct 10 to 12 miles of paving; amount available, $450,000; George Rommel, Jr., Pensacola, is engineer in charge; will advertise for bids; further information may be had from Mr. Merrick. (Recently noted.)

Ga., Macon.—City Council decided to pave additional streets out of $100,000 bond issue; streets include Bond from College to Orange, Walnut from 4th to 7th, Orange from Georgia Ave. to Bond, etc.; Eden Taylor, Jr., chairman committee on streets and sidewalks.

Ky., Louisville.—Board of Public Works, Frank Dugan, superintendent, will construct granite section of levee; amount available $10,000; construction under supervision of Board of Public Works. (Recently noted.)

La., Jennings.—City awarded contract to De Jersey & Barnard of Jennings to construct 10 miles of sidewalks and for curbing.

Md., Annapolis.—City will pave 2d, Madison, Washington and Clay Sts. with tar or asphalt macadam; J. C. Little, City Engineer.

Md., Baltimore.—State Roads Commission, John M. Tucker, chairman, Union Trust Bldg., will expend $1,500,000 during this year for road improvements in various parts of State; commission approved section of two miles on Court Rd., which connects with Falls Rd., in suburbs, and section of one and one-half miles on Middleburg Rd., in Carroll county.

Md., Baltimore.—State Roads Commission, Union Trust Building, authorized John M. Tucker, chairman, to invite bids for construction of that section of Annapolis and Baltimore Blvd. between Arnold's Station and Glenburnie; this section will form connecting link between portion of road now in course of construction and road extending from Baltimore over Light St. bridge through Brooklyn to Glenburnie; cost of completed road estimated at $300,000.

Md., Baltimore.—City is preparing ordinances to be submitted to City Council providing for proposed $5,000,000 paving loan; election will probably be held in spring; B. T. Fendall, City Engineer.

Md., Baltimore.—City awarded contract to McLean Contracting Co., 902 Maryland Trust Bldg., Baltimore, at $14,990.13 to repave with cobblestones four streets in South Baltimore in connection with crossing plans of Baltimore & Ohio Railroad; streets are Eutaw from Fremont Ave. to Henrietta, Hamburg from Howard to Sharp, Howard from Cross to Henrietta, and Hamburg from Eutaw to Warner; streets are to be regraded; B. T. Fendall, City Engineer.

N. C., Booneville.—Booneville township contemplates bond issue for road improvements. Address County Commissioners.

N. C., Newbern.—City will pave 40,000 square yards of street with brick, cement filler; with brick, sand filler; bitulithic and asphalt macadam; bids will be received until February 28; F. T. Patterson, City Clerk. (See "Machinery Wanted.")

N. C., Yadkinville.—Yadkin county contemplates construction of macadam road from Yadkinville to East Bend, to the Forsyth county line. Address County Commissioners.

N. C., Winston-Salem.—Forsyth county contemplates road construction; will have bill introduced in General Assembly permitting county to vote on $750,000 bonds for this purpose. Address County Commissioners.

Okla., Muskogee.—City will improve K and Galveston Sts., East Side Boulevard, Columbus Ave. and intersections of Walnut and Lawrence Sts., and of East Okmulgee Ave. and Park Drive, all in Improvement District No. 104; paving to be sheet asphalt on five-inch Portland cement concrete base; width, 30 feet; will also improve Denver Ave., Cherry and 16th Sts., and 20-foot alley in block 120; paving to be asphalt macadam on Denver Ave., Cherry and 16th Sts., and oil macadam on alley; paving to be 26 feet wide on Cherry St., 30 feet on 16th St. and 30 feet on Denver Ave.; bids opened February 6; Charles Wheeler, Jr., City Clerk.

Okla., Oklahoma City.—City will grade roadway in Grand Boulevard through Sections 8 and 9 of Township 12; Park Commissioners received bids until February 6; R. E. Brownell, chief engineer of board, 201 City Hall.

Okla., Tulsa.—City awarded contract to Parker-Washington Paving Co., St. Louis, Mo., at $101,855, for paving in eight paving districts.

Tenn., Jonesboro.—City will petition Legislature for authority to issue $10,000 of bonds for street improvements. Address The Mayor.

Tenn., Memphis.—City will pave Bellevue Blvd. from Autumn to Jackson Ave. with tar macadam; estimated cost $15,223. Address The Mayor.

Tenn., Memphis.—City will improve Barksdale St. from Union Ave. to Nashville, Chattanooga & St. Louis Railway; 10,000 cubic yards excavation; 10,133 square yards tar macadam pavement; 7600 linear feet 36-inch concrete curb and gutter, 10 trees and 3000 square feet water table; bids opened February 7; Ennis M. Douglass, City Clerk; E. H. Crump, Mayor.

Tenn., Mountain View, P. O. Knoxville.—Town will petition Legislature for authority to issue $10,000 of bonds for completion of street-improvement work. Address Town Clerk.

Tex., Abilene.—City will construct sidewalks; crossing on Pine St. where paving and sidewalk cross Texas & Pacific right of way is to be 150 feet wide. Address The Mayor.

Tex., Columbus.—Colorado county will vote on issuance of $250,000 of bonds for road construction. Address County Commissioners.

Tex., Dallas.—City will pave Griffin and Houston Sts.; bids will be received until February 13; J. B. Winslett, City Secretary. (See "Machinery Wanted.")

Tex., Fort Worth.—Tarrant county will complete work on T. C. U. Rd.; bids received until February 11; C. J. McKenna, County Auditor. (See "Machinery Wanted.")

Tex., Hillsboro.—City awarded contract to Ockander Bros., Temple, Tex., at $1.95 per square yard to pave streets within business district with Hassam concrete.

Tex., Kountze.—Hardin county will have $135,000 available for construction and grading of about 130 miles of road; work will be done by day labor under supervision of John L. Little, County Judge. (Recently noted to have voted on $100,000 bond issue.)

Tex., Paris.—City will vote March 7 on issuance of $50,000 of bonds for paving square with creosoted blocks on concrete base, etc.; E. H. McCulstion, Mayor. (See "Schools.")

Tex., San Antonio.—Los Angeles Heights Improvement Co., George Hagelstein, president, awarded contract to C. E. Miller of San Antonio to construct 1,000,000 feet of cement sidewalks in Los Angeles Heights.

Tex., San Antonio.—Bexar county will gravel two and one-half miles of Bandera Rd.; bids received until February 10; Thos. E. Ramsey, County Auditor. (See "Machinery Wanted.")

Tex., San Marcos.—City will vote in April on issuance of $4000 street-improvement bonds. Address The Mayor.

Tex., Stamford.—City will pave streets; has issued bonds. Address Mayor Blanchett.

Tex., Sweetwater.—City will construct about 22,000 square yards of macadam-asphalt street paving; bids received until March 4; L. S. Polk, City Secretary. (See "Machinery Wanted.")

Tex., Dallas.—Municipal Commissioners ordered paving of Bryan St. from Pacific to St. Joseph Sts., distance of about one mile; bids ordered are to be on several kinds of paving material used in city; also ordered bids for grading Jefferson St., Oak Cliff, from Beckley to Tyler Sts., requiring 14,242 cubic yards of excavation and 45 feet of fill, and for opening and grading of Turtle Creek drive, Gillespie to Maple Aves.; awarded contract for grading Peak St. from Main to Armstrong St., to Cullom & Bayousette of Dallas at 21½ cents per cubic yard. J. B. Winslett, City Secretary.

Va., Bridgewater.—Town Council is considering macadamizing East Commerce St. from intersection of Main St. to corporate boundary line at Berlinton. Address Town Clerk.

Va., Norfolk.—Finance and public improvement committee of City Council recommend to City Council appropriation of $137,000 for paving Church St. with smooth material; W. T. Brooke, City Engineer. (Recently mentioned.)

Va., Portsmouth.—Road Commission of Norfolk county awarded contract to Dalby-Nottingham Company of Norfolk at $4700 to macadamize Glasgow St.; also awarded contract at about $12,000 for macadamizing two miles of Great Bridge Rd. in direction of Centerville.

Va., Wytheville.—City contemplates improvements to streets. Address G. S. Sexton, Mayor.

SEWER CONSTRUCTION

Ala., Mobile. — Engineering Department, Board of Public Works, has completed plans for extending sewer and water systems; estimated cost, $600,000; Wright Smith, chief engineer.

Ala., New Decatur.—City Council adopted ordinance providing for construction of storm sewers. Address The Mayor.

Ala., Uniontown. — City will construct sewer system and sewage-disposal plant; work includes construction of 1840 linear feet of 15-inch pipe sewers, 3000 linear feet 12-inch pipe sewers, 7500 linear feet 10-inch pipe sewers, 15,200 linear feet 8-inch pipe sewers, lampholes and manholes; bids received until February 13; Edgar B. Kay, engineer, Tuscaloosa, Ala.; D. M. Coleman, Mayor. (Call for proposals noted recently.)

Ark., Ashdown.—City will construct sewer system. Address The Mayor.

Fla., Palm Beach.—City Council authorized issuance of $55,000 of bonds for sewer, street and sewer improvements. Address The Mayor.

Fla., Pensacola.—Board of Bond Trustees, John A. Merritt, chairman, will construct gravity system of sewers and drains ranging in size from 6 to 8 inches; George Rommel, Jr., Pensacola, is engineer in charge; amount available, $100,000; will advertise for bids; further information may be had of Mr. Merritt. (Recently noted.)

Ga., Ocilla.—City is considering construction of sewer system; J. B. McCrary, civil engineer, Atlanta, Ga., estimates cost at $10,000. Address The Mayor.

La., Mansfield.—City is prepared to grant sewerage system franchise; W. E. Singleton, City Clerk. (See "Water-Works.")

Md., Baltimore.—Calvin W. Hendrick, chief engineer Sewerage Commission, American Bldg., will soon award contract for construction of sewer under Baltimore & Ohio Railroad tunnel from near Camden Station to northern section of city; estimated cost, $90,000; specifications approved by Board of Awards.

Md., Brooklyn.—Anne Arundel County Commissioners, Annapolis, Md., awarded contract to Bond & Bates, Baltimore, Md., to construct sewers on Carroll and 5th Sts.; contract calls for 1500 feet of 6-inch, 8-inch and 12-inch pipes; three manholes and four storm-water inlets; cost $1132.22; E. T. Hayman, engineer in charge, Annapolis, Md. (Recently mentioned.)

Md., Baltimore.—City is preparing ordinances to be submitted to City Council providing for proposed $10,000,000 sewerage loan; election will probably be held in spring; B. T. Fendall, City Engineer.

Md., Baltimore.—Cly will construct trunk sewers in Pratt, Greene, Baltimore and Pearl Sts. (sanitary contract No. 62); bids will be received until February 23; W. D. Platt, chairman pro tem. of Sewerage Commission, 904 American Bldg. (See "Machinery Wanted.")

N. C., Edenton.—Town will petition Legislature for authority to issue $20,000 of bonds for construction of sewer system. Address Town Clerk.

N. C., Wilmington.—State Board of Health is considering plans prepared by Hazelhurst & Anderson, engineers, Atlanta, Ga., for sewer system; C. R. Humphreys, City Engineer. (Recently mentioned.)

Okla., Cherokee.—City will open bids about February 25 for extension to sewer and water-works plant recently noted; cost $33,000; Burns & McDowell, engineers in charge, Kansas City, Mo. (See "Water-works.")

Okla., Clinton.—City will receive sealed proposals until February 21 for construction of 26,200 feet of lateral sewers, with necessary manholes, etc.; J. L. O'Hearn, City Engineer; C. G. Welch, Mayor. (See "Machinery Wanted.")

Okla., Oklahoma City.—City Council adopted resolution providing for bond issue of $125,000 for sewerage systems for Packingtown District and for north section of city; former will include septic tank and sewage treating plant estimated to cost $80,000; latter will cost about $45,000. Address The Mayor.

Tex., Denton.—City Council decided to issue $2500 in city scrip, proceeds to be used in connecting sewerage system with high-school building. Address The Mayor.

Tex., Pecos.—City defeated $25,000 bond issue for construction of sewer system; another election will probably be ordered and new plans prepared; O'Neil Engineering Co., Dallas, Tex., prepared present plans. (Recently mentioned.)

Tex., Vernon.—City has arranged for sale of $12,000 of bonds for extension of sewer system and water-works construction. Address The Mayor. (Previously mentioned.)

Tex., Yoakum.—Dr. W. W. McVea (secretary Commercial Club) and others are interested in construction of sewer system; contemplate organizing company with $20,000 capital stock.

Va., Farmville.—City voted December 6 on issuance of $15,000 of bonds to construct sewer system; H. E. Barrow, chairman finance committee. (Previously noted.)

TELEPHONE SYSTEMS

Ark., Imboden.—Farmers' Mutual Telephone Co. organized; N. L. Dunahue, president; J. R. Barnett, vice-president; Henry Black, secretary; Charles Bratcher, treasurer; will construct telephone lines in Lawrence county.

Ky., Whitesburg.—N. Starkey of Pikesville, Ky., purchased Whitesburg Telephone Co.'s lines in Letcher county; also Letcher Home Telephone Co.'s line to Baker; will make improvements and install switchboard; construct double line to Stonega.

Miss., Meridian.—Mississippi Home Telephone Co., N. E. Robb of Jackson, Miss., general manager, is reported to expend about $2,500,000 for extension of long-distance service to towns in all adjacent States, first connecting New Orleans, La.; Memphis, Tenn., and Shreveport, La.

N. C., Elizabethtown.—Bladen Telephone Co. incorporated with $10,000 capital stock; will open bids at once for erection of exchange and construction of 75 miles of new line; John McDowell, general manager. (See "Machinery Wanted.")

N. C., Kernersville.—Sedge-Garden Telephone Co. (not Sedge-Jordan Telephone Co., as recently stated) incorporated with $10,000 capital stock; will operate local, rural and toll line. George M. Teague is manager.

S. C., Greenville.—Southern Bell Telephone & Telegraph Co., Atlanta, Ga., receives bids February 6 for erection of telephone exchange; three stories and basement; 41x61 feet; brick walls; reinforced concretee and tile floors; George J. Yundt, Atlanta, engineer in charge. (Recently noted.)

Tenn., Tracy City.—Citizens' Telephone Co. contemplates extending system to Monteagle and Pelham; will connect with Citizens' Telephone Co. of Warren county, giving direct service to McMinnville, Viola, Smithville and other points.

Tex., Longview. — Lacy Telephone Co. awarded contract for installation of poles from Foley to Texas Southern Crossing (15 miles) and will award contract for 15 additional miles from that point to Ore City.

Va., Alum Ridge.—Floyd-Montgomery Telephone Co. incorporated with $10,000 capital stock; W. W. Thompson, president, Sowers, Va.; M. E. Gordon, vice-president, Copper Valley, Va.; R. T. Akers, secretary-treasurer, Alum Ridge.

W. Va., Fairmont.—Central District Printing & Telegraph Co. of Clarksburg, W. Va., purchased site and will erect telephone building; several stories.

W. Va., Madison.—G. H. Echols and others will construct telephone system to connect with Southern Bell Telephone & Telegraph Co.: will extend eight miles from Madison, on Rock Creek and Draudy Creek.

TEXTILE MILLS

Ala., Oxford—Cotton Cordage. — Calhoun Cotton Cordage Co. succeeds Planters' Manufacturing Co.; may enlarge plant.

Ga., Jasper—Converters Cloth.—Jasper Cotton Mills will erect reinforced concrete buildings for 55,000-spindle and 1200-loom plant; fireproof construction throughout; erect operatives' dwellings of brick and concrete facing, equipped with electric lights, water and sewerage; operate textile machinery by 5000 electrical horse-power, having each machine equipped with motor as far as possible; architect-engineer now preparing plans and specifications; William T. Lang is president. (Organization with $1,000,000 capital stock and other details reported recently.)

Ga., Statesboro — Cotton Yarns.—R. Simmons, J. G. Blitch and others are, it is rumored, interested in plan to build mill for spinning yarns from Sea Island cotton.

Miss., Pascagoula — Knit Goods. — Mississippi Fish & Oyster Co. may install knitting machinery. (See "Machinery Wanted.")

N. C., Lexington—Cotton Goods.—Wennonah Cotton Mills Co. chartered with $125,000 capital stock by William E. Holt, William E. Holt, Jr., and Joe V. Moffitt.

N. C., Lumberton—Hosiery.—Robert E. Lee and associates will organize company to build hosiery knitting mill; have not purchased machinery. (See "Machinery Wanted.")

N. C., Salisbury—Damask.—Hambley Manufacturing Co. has not determined details for damask mill; will not make plans or open bids for building or machinery before April 20; secretary, Gilbert F. Hambley. (Recently reported organized with $125,000 capital stock.)

N. C., Vaughan—Hosiery.—Allgood Hosiery Mill Co. organized with A. C. Allgood, president, and J. P. Vaughan, secretary-treasurer; purchased Vaughan Hosiery Mill Co. plant of 28 knitting machines, dyeing and finishing machinery, etc. (Lately reported incorporated with $20,000 capital stock.)

N. C., Washington—Hosiery.—J. T. Lewis will establish Tar River Hosiery Mill; has two-story 30x70-foot building; will install 35 knitting machines, costing about $3500, and 30-horse-power steam plant, costing about $1500.

S. C., Greenville—Cotton Cloth.—Duncan Cotton Mills will organize with J. Adger Smyth, Jr., president, to build 50,000-spindle and 1500-loom plant; capital stock, $1,000,000; architect is J. E. Sirrine of Greenville. (Mentioned in January.)

S. C., Greenville — Lawns and Linens. — Westervelt Mills open bids February 10 for erection of buildings; brick; steel beams supporting floors; wooden beams for roof supports; roofing and floors of wood; floors to be covered with maple tops; two-story spinning and carding mill, 130x423.6 feet; one-story weave shed, 231x301.4 feet, with sawtooth roof; two-story picker and slasher room, 47.2x114 feet; boiler-room, 48.8x66.4 feet; warehouse, 102x154 feet, with three compartments; plant will have 50,000 spindles and 1200 looms; all textile machinery contracted for; architects, Lockwood, Greene & Co., 176 Federal St., Boston, Mass., and Greenville; president, J. I. Westervelt. (Organization with $1,000,000 capital stock and plans reported recently.)

Va., Basic City — Woolen Goods. — Basic Woolen Co. chartered with $75,000 capital stock; Hiram Dawson, president; W. H. Gardner, treasurer; M. E. Bean, secretary.

WATER-WORKS

Ala., Alabama City.—City Council decided to construct municipal water plant to supplement system owned and operated by Dwight Manufacturing Co.; plan to extend fire protection to districts not controlled by Dwight Company Address The Mayor.

Ala., Dothan.—City will expend $60,000 to construct water-works and electric-light plant; erect 60x200-foot brick building and 10x125-foot brick stack; construct reinforced-concrete reservoir; cost $5000; install 2,000,000-gallon pump, 500-kilowatt electric unit, 500-horse-power steam boilers and 1000-foot air compressor; date of opening bids not set; B. R. Pilcher, engineer in charge. (Recently noted.)

Ala., Mobile. — Engineering Department, Board of Public Works, has completed plans for extending water and sewer systems; estimated cost, $600,000; Wright Smith, chief engineer.

Ark., Ashdown.—City will construct water-works. Address The Mayor.

La., Mansfield.—City is prepared to grant franchise for installation of system of water-works and sewerage; W. E. Singleton, City Clerk.

Md., Baltimore.—Suburban Water Co. (organized to consolidate Park Heights and Mortimer Heights Water companies) has incorporated and elected officers; Lloyd L. Jackson (president Park Heights Water Co., 510 Continental Bldg.) is president; Mortimer W. West (president Mortimer W. West Realty Co., 6 E. Lexington St.), vice-president; R. E. Lee Marshall, 841-853 Calvert Bldg., secretary-treasurer; authorized issue of $250,000 bonds and $200,000 common stock; at present proposed to issue only $75,000 of bonds and $100,000 of common stock; remainder of bonds to be reserved for future development. (Recently mentioned.)

Md., State Sanatorium.—Maryland Tuberculosis Sanatorium, Dr. Victor F. Cullen, superintendent, will drill several wells to be operated by air pumps in accordance with recommendation of Calvin W. Hendrick, chief engineer Sewerage Commission, American Bldg., Baltimore, Md. (Recently mentioned.)

Miss., Vicksburg.—City Council adopted resolution authorizing purchase of Vicksburg water-works plant. Address The Mayor.

Mo., Chaffee.—City will receive bids until March 1 for extension to water-works recently noted; cost $20,000; M. S. Murray, engineer in charge, Sikeston, Mo.; H. C. Hester, City Clerk. (See "Machinery, etc., Wanted.")

Mo., St. Louis.—City Council has been petitioned by Water Commissioner Atkins for appropriation of $750,000 for improvements to water system; $100,000 of this amount is to be expended for erection of boiler-house at Bissell's Point, and new equipment, including turbine engines; $150,000 for revetment of river bank at Chain of Rocks, and $250,000 for new distribution department; Maxine Reber, City Engineer.

Okla., Achille.—Town does not at present contemplate construction of water-works system recently noted.

Okla., Cherokee.—City will open bids about February 25 for extension to sewerage and water-works plant recently noted; cost $33,000; Burns & McDowell, engineer in charge, Kansas City, Mo.; engineers may be addressed. (See "Machinery Wanted.")

Tex., Marlin.—City Council granted water franchises to J. E. Brown and W. D. Kyser.

Tenn., Lonsdale, R. Sta. Knoxville.—City will petition Legislature for authority to issue $29,000 of bonds for fire protection and water supply; will make connection with Knoxville's water mains; M. M. Copenhaver, Mayor.

Tex., Ballinger.—City will install filtering plant in water-works to supply 750,000 gallons of water daily; contract awarded; city is expending $16,000 in extending water mains and making other improvements to system. Address The Mayor.

Tex., Bryan.—City Council purchased at $12,625 entire water distributing system from present company, consisting of mains, laterals, standpipe, pumps, piping, etc.; system is to be connected with municipal system, contract for construction of which has been awarded to Mr. Lawler, New Orleans, La.; city has issued $33,000 of bonds.

Tex., Caldwell.—Cty will vote February 21 on issuance of $5000 of bonds for erection of steel standpipe or water tower. Address The Mayor.

Tex., Georgetown.—City receives bids February 8 for extension to water-works and electric-light plant recently noted; to include erection of concrete power-house and machinery, laying pipe, furnishing hydrants and valves; F. H. Lancashire, engineer in charge, Dallas, Tex.; R. E. Ward, Mayor. (See "Machinery Wanted.")

Tex., Hamilton.—City will make extension to water-works; receives bids February 6 for furnishing pipe, necessary specials, etc.; F. H. Lancashire, engineer in charge, Dallas, Tex.; E. A. Perry, Mayor. (See "Machinery Wanted.")

Tex., Vernon.—City has arranged for sale of $12,000 of bonds for water-works construction and extension of sewer system. Address The Mayor. (Previously mentioned.)

Va., Lexington.—City voted $75,000 bond issue for additional water supply; contemplates securing water from mountain, distance of 11 miles from city; capacity, 250,000 gallons; gravity system; date of opening bids not set; city's force may construct; Samuel B. Walker, Jr., Mayor. (Recently mentioned.)

Va., Luray.—City voted $10,000 bond issue for additional water supply; water will be piped across mountain from stream near summit of Blue Ridge to main leading from present 10,000,000-gallon reservoir; by pressure from altitude of about 3000 feet water will be forced to old reservoir at foot of Blue Ridge; 40,000 gallons daily supply will be increased to 130,000 gallons. Address The Mayor. (City previously mentioned as having engaged N. Wilson Davis, engineer, Harrisonburg, Va.)

Va., Richmond.—Subcommittee of water committee of City Council recommended installation of two centrifugal electric pumps with capacity of 4,000,000 gallons for standpipe in Byrd Park; cost $12,000; Charles E. Bolling, City Engineer.

Va., Wytheville.—City contemplates extension to water-works. Address G. S. Sexton, Mayor.

W. Va., McMechen.—A. Grant Richwine, president Benwood & McMechen Consolidated Water Co., Mechanicsburg, Pa., may be addressed relative to company's plans for supplying water for Benwood and McMechen, W. Va. (Recently reported incorporated with $200,000 capital stock.)

WOODWORKING PLANTS

Ala., Montgomery—Carriages.—Montgomery Carriage Works increased capital stock from $7500 to $15,000.

Ala., Montgomery — Chairs. — Montgomery Cooperage Co. is considering addition of chair factory.

Ark., Gillett — Handles.—Bluffton Lumber Co., Bluffton, O., will establish handle factory. (See "Lumber Manufacturing.")

Ark., Pocahontas—Staves and Headings.—Grafton Stave & Heading Co., Grafton, Ill., purchased 51 acres and will establish plant for manufacturing staves and headings.

La., New Orleans—Sash, Doors, etc.—National Sash & Door Co. incorporated with $250,000 capital stock by J. E. Franklin, Hart D. Newman, Eugene Roberts, Robert L. Emery and Charles Roth.

Miss., Vicksburg.—Big Four Stave & Lumber Co., Colby, Miss., will continue established plant recently noted.

Mo., Marston—Cooperage.—Marston Cooperage Co. incorporated with $10,000 capital stock by Seth S. Barnes, O. G. Gwyn, C. M. Barnes and others.

N. C., Henderson — Buggies. — Henderson Buggy Manufacturing Co. incorporated with $25,000 capital stock; A. C. Zollicoffer, president; R. J. Jones, secretary; R. J. Corbett, manager; will continue former (firm) business.

N. C., Henderson—Buggies.—Central Buggy Co. incorporated with $25,000 capital stock by R. J. Corbitt, E. F. Shaw and A. C. Zollicoffer.

N. C., Statesville—Showcases.—Statesville Showcase Co. will rebuild showcase factory reported burned in November; new building will be three stories; frame covered with metal sheet-iron weatherboarding.

N. C., Wilmington.—Camp Manufacturing Co., Franklin, Va., will not establish plant recently noted, but will continue operation of saw and planing mill.

Okla., Oklahoma City — Furniture.—Stanford Furniture Co., 8th St. and Santa Fe Ave., will erect six-story building to cost $100,000; will probably install machinery for manufacturing furniture.

Tenn., Memphis—Chairs.—W. S. J. Milne, Cleveland, Tenn., is considering establishment of chair factory; may locate in Memphis.

Tenn., Memphis—Shingles.—Memphis Shingle Co. increased capital stock from $10,000 to $60,000 and changed name to Memphis Shingle & Lumber Co.

Tenn., Memphis—Boat Supplies. — Anchor Boat Oar Co. organized to operate Anchor Block Mills; will make specialty of boat supplies.

Tenn., Tullahoma—Furniture.—Brixey Furniture Co. organized by Huston Brixey and others; acquired McDowell Furniture Co., located in Utopia Bldg.; will install woodworking plant.

W. Va., Williamstown—Boxes, etc.—West Virginia Veneer Co. incorporated with $20,000 capital stock by Isaac P. Eddy, C. W. Dowling, W. P. Beeson and others.

BURNED

Ala., Luverne.—Morgan & Martin's lumber plant; loss $75,000.

Ark., Jasper.—Francis Shaw's saw and planing mill; loss about $5000.

D. C., Washington.—Pattern shop of Washington Navy-yard; loss about $20,000; Capt. Frank E. Beatty, commandant of Navy-yard.

Ga., Augusta.—Lamar Hospital; loss about $10,000; Thomas Barrett, Jr., Mayor.

Ga., Rome.—Porter Bros.' barn; loss $4500.

Ga., Waynesboro.—Simeon Bell, Sr.'s, cotton gin.

Ky., Carlisle.—Wallace Duncan's residence; loss $3500.

Ky., Stamping Ground.—Christian Church building; loss $5000. Address The Pastor, Christian Church.

La., Colfax.—Big Pine Lumber Co.'s three lumber drykilns; loss about $20,000.

La., Coushatta.—J. A. Leindecker's sawmill.

La., Eros.—Tremont & Gulf Railway's car shops; loss reported at $50,000; G. H. Bland, general superintendent, Winnfield, La.

Md., Baltimore.—Baltimore Steam Packet Co.'s superstructure of offices and tower on new Light St. pier; loss about $50,000; John R. Sherwood is president of company; general offices, Barre and Light Sts.

Miss., Boyle. — Adams Drug Co.'s store, Thomas Cotton & Co.'s building, H. Berlein, T. Tomello's building, N. E. Pitts' building; loss $20,000.

Miss., Decatur.—Newton county courthouse. Address County Commissioner.

Mo., Granby.—Granby Mining & Smelting Co.'s concentrating mill; loss $25,000.

Miss., Hattiesburg.—G. L. Hawkins' building; Otis Smith's building; loss $8000 to $9000.

Miss., Hattiesburg. — Otis Smith's blacksmith and carriage shop; B. M. Davenport's veterinary hospital; John Mortillo's store.

Mo., Jefferson City.—Missouri State Capitol; loss estimated at $1,000,000; Herbert S. Hadley, Governor.

Mo., St. Louis.—Ferguson Waterproof Co.'s waterproof cloth plant at 2136 S. 2d St.; loss reported at $55,000.

N. C., Charlotte.—Charlotte Plaster Co.'s plant.

Okla., Bokhoma. — Frisco Lumber Co.'s planing mill and powerhouse; loss $3000.

S. C., Edgefield.—E. S. Johnson's planing mill and lumber yard; loss $2500.

S. C., Florence.—Gaylor Dry Goods Co.'s store; loss on building $10,000.

S. C., Little Mountain.—J. B. Lathan's store and residence; loss $10,000.

S. C., Orangeburg.—James M. Albergotti's residence; loss $3000.

S. C., Pinewood.—R. H. Wilson's shingle mill; loss about $2000.

S. C., Seneca.—Seneca Oil Mills cotton gin; loss $7000 to $8000.

S. C., Swansea.—M. J. Rucker's saw and shingle mill; loss $2000.

Tenn., Jellico.—John P. Gorman's building; loss $5000.

Tex., Comanche.—Comanche Milling Co.'s buildings damaged; loss $2500.

Tex., Dallas.—Southland Taxicab Co.'s garage at 340-42 Jackson St., loss on building $3500; total loss $12,000.

Tex., Houston.—Houston Co-operative Manufacturing Co.'s slat storage building; loss about $3000.

Tex., Humble.—Producers' Oil Co.'s machine shops; estimated loss $20,000.

Tex., Wolfe City. — Wolfe City National Bank; Kennedy Bros.' drug store; Keith & Harold's meat market; offices of Drs. J. N. Pyle, G. A. Hodkins and C. W. Young; J. N. Hodkins' office; loss on Kennedy Bros.' drug store about $12,000; total loss about $50,000.

Va., Staunton.—John R. Rutherford's residence; loss $5000.

BUILDING NEWS

BUILDINGS PROPOSED

APARTMENT-HOUSES

Ky., Louisville.—Thierman Realty Co. will erect apartment-house; site 80x200 feet.

Mo., Kansas City.—W. A. Poteet will erect apartment-house; brick; 16 apartments; cost $50,000.

Mo., Kansas City. — T. C. Mitchell will erect apartment-house; three stories; brick; cost $40,000.

Mo., St. Louis.—Cunard Realty & Building Co. will erect three apartment-houses on Cleveland Ave.; three stories; cost $70,000.

Tenn., Chattanooga.—Albert Coffin, care of Trotter Bros., is having plans prepared for erection of $6000 brick apartment-house on Houston St. near Oak.

Tenn., Knoxville.—B. H. Sprankle will expend $175,000 to erect 124x70-foot steel fireproof apartment and office building; pressed brick; steam heat; lighting plant to cost $15,000; roof garden; plans by William H. Gildard, 605 Prince St., Knoxville; will let subcontracts; date of opening bids not set. (Recently noted.)

Tex., Houston.—J. J. Sweeney is having plans prepared by O. J. Lorehn, Houston, for two-story store and apartment building; 85x125 feet; cost $30,000.

ASSOCIATION AND FRATERNAL

Fla., Pensacola. — Benevolent Protective Order of Elks will erect building; two stories; colonial style.

Fla., Summerfield.—Summerfield Council of Fraternal Union of America will erect building; two stories; 26x50 feet.

Ga., Newnan.—Benevolent and Protective Order of Elks plans erection of $12,000 to $15,000 lodge building.

Ky., Middlesboro.—Pinnacle Lodge, Ancient Free and Accepted Masons, acquired Manring Coal Exchange Bldg. and will remodel for lodge purposes.

La., Alexandria.—Elks Home Association will issue $18,000 worth of bonds to erect home; is having plans prepared by Stevens & Nelson, New Orleans, La.

La., Shreveport.—Carpenters and Joiners' Union No. 764 will erect $10,000 hall.

Miss., Gulfport.—Knights of the Maccabees will erect $8000 residence.

Okla., Guthrie. — Benevolent Protective Order of Elks acquired Cassidy's Hall and will expend $5000 to remodel for lodge purposes.

Tex., Austin.—Benevolent and Protective Order of Elks plans organization of building association with $50,000 capital stock to erect lodge building; Geo. E. Shelley, chairman of building committee.

Tex., Cleburne.—Cross Timbers Camp, No. 4, Woodmen of the World, will erect building; three stories; brick; 75x120 feet; basement and roof garden.

Tex., Houston.—J. J. Sweeney is having plans prepared by O. J. Lohren, Houston, for apartment-house; 85x125 feet; two stories; cost $30,000.

Tex., Houston.—Young Women's Christian Association, Mrs. Harris Masterson, president, plans erection of building.

Tex., McKinney.—McKinney Lodge, No. 828, Benevolent Protective Order of Elks, plans, it is reported, erection of lodge building; J. Matt Pearson, exalted ruler.

Va., Danville.—Danville Lodge, No. 227, B. P. O. E., will erect building for lodge and clubrooms; three stories; 54x150 feet; cost $30,000; building site not available for nine months; architect not chosen; E. L. Melton, secretary. (Recently noted.)

Va., Portsmouth. — Fraternal Order of Eagles, Portsmouth Aerie No. 558, will erect clubhouse; cost $20,000 to $25,000.

Va., Petersburg. — Petersburg Benevolent and Mechanical Association has plans by John K. Peebles, Norfolk, Va., for business and office building; seven stories; fireproof; cost $125,000. (Recently noted.)

BANK AND OFFICE

Ala., Birmingham.—First National Bank will remodel bank building; has contracted with Alabama Marble Co. of Birmingham to furnish marble for reconstruction of corridors; ceramic tile floors will be laid; corridors will have white marble wainscoting.

Ala., Warrior.—Citizens' Bank, now occupying rented building, contemplates erection of structure later. W. T. Sibley is president.

D. C., Washington.—Appleton P. Clark, Jr., Union Trust Bldg., Washington, is receiving bids for erection of proposed Owen office building at 620 F St. N. W.; four stories; brick; cost about $20,000.

D. C., Washington.—George Howard (treasurer National Savings & Trust Co.), 15th St. and New York Ave. N. W., and associates have plans by J. H. de Sibour, Hibbs Bldg., Washington, for proposed office and theater building; eight stories; trash chute; long-distance telephone and central exchange connecting each office; three electric passenger elevators, sidewalk elevator and freight lift; high-pressure direct-steam-heating plant in basement.

Fla., Ocala.—Ocala National Bank (John L. Edwards and others) will erect bank building.

Fla., St. Petersburg.—Southern Express Co. will erect office building; 60x25 feet; brick; overhanging tile roof; cement floors.

Ga., Union City.—Greater Georgia Development Co., J. H. Harris, vice-president (recently noted under "Land Developments" to develop resort, etc.) has plans by S. G. Slack (address, care of company) for office, lodge and warehouse building; 50x100 feet; ordinary construction; granite sidewalks; will open bids in about 30 days.

La., Shreveport. — Commercial National Bank will erect bank building.

Md., Salisbury.—William M. Cooper had plans prepared by Owens & Sisco, 1605 Continental Bldg., Baltimore, Md., for two-story bank and office building recently noted; fireproof; 48x75 feet; cost $12,000; steam heat; contract to be let about June. Address Mark Cooper, Laurel, Del.

Mo., St. Louis.—Smith Bros. will erect office and store building; three stories; cost about $75,000. (See "Stores.")

N. C., Charlotte.—Commercial National Bank, A. G. Brenzier, president, 4th and South Tryon Sts., will erect bank and office building; 8 to 10 stories; fireproof; elevators; cost about $200,000; site 35x134 feet.

S. C., Florence.—R. E. Goertz will erect two-story office and store building.

Tex., Jasper.—Jasper State Bank, C. C. Brown, president, will erect brick bank building.

Tex., Laredo.—J. K. Barreta will not at present erect office building recently noted.

Tex., Waco.—William Cameron & Co. will erect office and store building. (See "Stores.")

Va., Richmond. — First National Bank Building Corporation incorporated; has tentative plans for bank and office building on present site of Chamber of Commerce; about 20 stories; total height, 230 feet; fireproof; doors and window frames of metal; site contains about 8600 square feet; ground floor, to be occupied by bank, will contain 7200 square feet; steel framing in banking-room so arranged that mezzanine floor can be added in rear, accommodating about 50 clerks; five elevators, telegraph and telephone booths, etc., on first floor; basement will contain fire and burglar proof vaults, to cost about $30,000; in center will be main vault, 24x16 feet inside, which will contain bank's funds and 5000 safety-deposit boxes; vault will be equipped with time locks; coupon booths in basement; concrete floor; lift will operate from main banking-room to door of vault; sub-basement will contain electric-lighting plant heating apparatus and all necessary machinery; total estimated cost, $1,000,000; Chesapeake & Ohio Railway will occupy 60,000 square feet and Richmond, Fredericksburg & Potomac Railroad 10,000 square feet; John B. Purcell (president First National Bank) will be president; Geo. W. Stevens (president Chesapeake & Ohio Railway), first vice-president; William H. White (president Fredericksburg & Potomac Railroad), second vice-president; W. D. Duke (of Richmond, Fredericksburg & Potomac Railroad), secretary, and John M. Miller, Jr. (of First National Bank), treasurer.

CHURCHES

Ala., Montevallo.—Montevallo Methodist congregation will erect edifice. Address The Pastor, Montevallo Methodist Church.

Ark., Morrilton. — Methodist congregation contemplates erecting addition to edifice. Address The Pastor, Methodist Church.

D. C., Anacostia. — Anacostia Baptist Church, Rev. Frank L. Bardens, pastor, will not erect addition to edifice, as was recently stated.

D. C., Washington.—All Souls' Unitarian congregation, 14th and L Sts. N. W., is considering erection of edifice to cost about $300,000; also contemplates erecting parish hall. Rev. Dr. W. G. B. Pierce, 1616 Riggs Pl. N. W., is pastor.

Fla., West Palm Beach.—Union Congregational Church adopted plans and specifications for edifice; artificial stone; pipe organ; cost about $8000; J. C. Stowers, chairman of committee.

Ga., Commerce.—Presbyterian Church (recently noted) will be of brick construction; 76x96 feet; cost $6500; electric lighting; plans by L. B. Valk, Los Angeles, Cal.; construction to begin about April 1 under supervision of foreman; Chas. A. Mize, secretary building committee. (See "Machinery Wanted.")

La., Baton Rouge.—First Presbyterian congregation will erect three-story Sunday-school building to cost $9000. Address The Pastor, First Presbyterian Church.

La., Shreveport.—Central Christian Church has plans by Neild & Owens for proposed edifice; brick; site 70x125 feet; cost about $35,000; construction begun.

Md., Cumberland.—Zion German Reformed Church, Rev. Gottlieb Reusch, pastor, North Liberty St., will erect edifice.

Mo., Kansas City.—St. James' Catholic Church, Rev. John T. Keyes, pastor, 39th St. and Harrison Blvd., has plans by Sanneman & Van Trump of Kansas City for edifice; native stone; Carthage or Phoenix stone; cost about $40,000.

N. C., Lexington.—Presbyterian Church has plans by Wheeler & Stern, Charlotte, N. C., for addition to edifice; one story; 53x50 feet; will receive bids in about 30 days.

S. C., Florence.—Methodist congregation will erect $20,000 edifice. Address The Pastor, Methodist Church (colored).

S. C., Florence.—First Methodist Church, Rev. R. H. Jones, pastor, is considering erection of church and Sunday-school building.

N. C., Winston-Salem. — Methodist Protestant Church has plans by J. S. Zimmerman of Winston-Salem for edifice; pressed brick; stone trimmings; sheet metal cornices; metal roof; interior to be finished in natural pine; basement to have concrete floor; Sunday-school in rear to contain 10 rooms; seating capacity, including gallery, about 800. (Recently mentioned.)

Tenn., Chattanooga. — Trinity Methodist Episcopal Church South has plans by D. V. Stroop, James Bldg., Chattanooga, for remodeling present structure; will erect additional story and other rooms; brick; cost $5000.

Tenn., Knoxville.—First Cumberland Presbyterian Church, Rev. Thomas Ashburn, pastor, will erect edifice; probably buff pressed brick and Tennessee marble; cost $40,000 to $50,000; T. W. Keller, Chairman Building Committee.

Tenn., Knoxville.—People's Tabernacle, Rev. W. E. Parry, pastor, 113 E. Cumberland St., is having plans prepared for edifice; cost $5000; site 75x125 feet.

Tex., Algon.—Baptist Church will erect edifice to cost $2500 to $3000. Address Rev. Mr. Kirby, Texas City, Tex.

Tex., Mercedes.—German Lutheran Church, Rev. E. Moebus, pastor, will erect brick edifice to cost about $3000; site 187x300 feet.

Tex., San Antonio.—Methodist Church will award contract in about four weeks for $7500 edifice after plans by Atlee B. Ayres, 228 W. Commerce St., San Antonio; brick structure with stone trimmings; tile roof and oak finish; steam heat; size 55x120 feet.

Tex., Wichita Falls.—Methodist Episcopal Church South will erect branch church building. Address The Pastor, Methodist Episcopal Church South.

Tex., Victoria.—Methodist congregation will erect edifice; buff pressed brick; white enamel brick and terra cotta; 67x100 feet; dome; height to top of dome, 56 feet; front of five colonial columns and four stained glass windows; main auditorium, 41x47 feet, with seating capacity of 302; elevated floor; Sunday-school auditorium, 32x47 feet; cost $16,000 to $18,000. Address The Pastor, Methodist Church.

Va., Ashland.—Duncan Memorial Methodist Church contemplates erecting edifice. Rev. F. L. Wells, chairman of committee.

Va., Portsmouth.—Elm Avenue Methodist Episcopal Church South will erect edifice. Rev. W. G. Bates (pastor Owens Memorial Methodist Episcopal Church) is chairman building committee.

Va., Harrisonburg.—Methodist Episcopal Church South will open bids March 1 for erection of edifice; Gothic architecture; 90-foot tower and two secondary towers; cost $35,000; plans by Charles M. Robinson, 1024 Mutual Bldg., Richmond, Va. (Recently noted.)

Va., Richmond.—Barton Heights Baptist congregation will erect edifice; concrete blocks or brick; cost $15,000. Address The Pastor, Barton Heights Baptist Church.

Va., Richmond.—Asbury Methodist Episcopal Church South will open bids February 17 for erection of edifice previously noted; 65x126 feet; mill construction; direct and indirect steam heat; electric alcove lighting; prism glass; cost $35,000; plans by Huggins & Bates, Roanoke, Va. (See "Machinery, etc., Wanted.")

W. Va., Fairmont.—Diamond Street Methodist Episcopal congregation will erect edifice; foundation completed. Address The Pastor, Diamond Street Methodist Episcopal Church.

CITY AND COUNTY

Ala., Union Springs—Library.—City is having plans prepared by R. Kennon Pery and C. C. Clarke, Union Springs, for Carnegie Library; cost $10,000. (Recently noted.)

Ark., Benton—Jail.—Saline county contemplates erection of jail; M. D. Kinkead, County Clerk.

Ga., Augusta—Hospital.—City will erect hospital for negroes to replace Lamar Hospital reported burned; loss about $10,000; Thomas J. Barrett, Mayor.

Ga., Washington—Jail.—Wilkes County Commissioners are having plans prepared by G. Lloyd Preacher of Augusta, Ga., for jail and jailer's residence; fireproof; reinforced concrete; 50 cells; execution trap, etc.; cost $20,000.

Ky., Louisville—Hospital.—Hospital Commission, John Chambers, engineer, 312 Columbia Bldg., is having plans prepared by D. X. Murphy & Bro., 250 5th St., Louisville, for hospital; fireproof construction; cost about $900,000. (Recently noted.)

La., Boyce—Jail.—City is considering erection of jail. Address The Mayor.

Md., Baltimore—Vault.—City of Baltimore will receive estimates until February 9 for construction of vault at City Hall annex; two stories; iron and concrete construction; 30x26 feet. Contractors estimating are: P. J. Cushen, 213 Courtland St.; J. J. Walsh & Son, 1533 Maryland Ave.; Ryan & Reilly, 411 American Bldg.; B. F. Bennett Building Co., 123 S. Howard St.; Whiting-Middleton Construction Co., Sexton Bldg.; J. L. Robinson, 1325 Hollins St., all of Baltimore.

N. C., Cherryville—City Hall.—City has plans by Wheeler & Stern, Charlotte, N. C., for city hall; two stories; 30x90 feet; buff brick; ornamental terra-cotta; pine finish; cement and hardwood floors; jail work; guards; two cells; steel doors; electric fixtures; date of opening bids not set; A. H. Heiss, Mayor.

Tex., Corsicana—Jail.—Navarro county will expend $7000 to remodel jail; improvements include reinforced-concrete floors, electric conduit system of lighting, cell work, etc.; plans by W. G. Clarkson, Corsicana. (Recently noted.)

Tex., Paris—Comfort Station.—City will vote March 7 on $50,000 bond issue to erect comfort station, etc. (See "Schools.")

Tex., Wichita Falls—Jail.—Wichita County Commissioners will receive bids until February 16 for erection of jail, including heating, wiring and plumbing; separate bids for cell work or for building and cell work complete; certified check for $500; plans and specifications at office of Jones & Orlopp, architects, Wichita Falls, or may be had on deposit of $10.

Va., Hampton—City Hall and Stables.—City plans erection of brick city hall and city stables. Address Mayor Jones.

Va., Norfolk—Lavatories.—City has estimates by B. F. Mitchell, architect, Norfolk, and W. T. Brook, City Engineer, for lavatories as follows: Underground on Commercial Pl., cost $4500; above ground at City Market, cost $3000.

Va., Richmond—City Hall.—City grounds and building committee plans erection of three additional stories to city hall.

W. Va., Wheeling.—City has plans by Fred L. Faris, Wheeling, for auditorium and market; cost $150,000; two stories; lower floor 40x512 feet; upper floor 56x512 feet.

COURTHOUSES

Ala., Carrollton.—Pickens County Commissioners will let contract about February 12 for erection of addition to courthouse; one story; six rooms; fireproof; brick walls; J. W. Cox, clerk.

Ark., Prescott.—Nevada county will erect courthouse; plans submitted February 6, and bids will be received later; Joe A. Bailey, County Clerk.

Ky., Harrodsburg.—Mercer county will probably erect courthouse; Lewis L. Walker, Circuit Judge.

N. C., Hertford.—Perquimans County Commissioners consider erection of $30,000 brick courthouse; architect not selected; bids for erection to be opened in April or May. Address Chas. W. Morgan.

Tenn., Jonesboro.—Washington County Commissioners plan issuance of $50,000 of bonds to erect courthouse.

Tex., Greenville.—City will probably vote in August on $100,000 bond issue to erect courthouse. Address The Mayor.

Tex., Mt. Vernon.—Franklin County Commissioners will receive sealed proposals until 10 A. M. February 13 for erection of fireproof stone courthouse and jail, according to plans and specifications prepared by L. L. Thurmon & Co., Dallas, Tex.; no bids considered unless accompanied by certified check for 10 per cent. of bid submitted and made payable to G. E. Cowan, County Judge; plans and specifications may be obtained by depositing check for $100 with architects; usual rights reserved. (Previously noted.)

W. Va., Moorefield.—Hardy County Commissioners are having plans prepared by Milburn, Heister & Co., Home Life Bldg., Washington, D. C., for fireproof courthouse.

DWELLINGS

Ala., Birmingham.—J. M. Morrison will erect two-story frame dwelling; cost $3500.

Ala., Ensley.—Ensley Land Co. will erect 22 dwellings; cost $50,000.

Ark., Little Rock.—J. S. Pool is having plans prepared by H. J. Hooker, Little Rock, for residence; cost $5000.

Ark., Little Rock.—H. L. McFarlin is having plans prepared by Clyde Ferrell, Little Rock, for $5000 residence.

Ark., Little Rock.—C. A. Colvin is having plans prepared by Theo. M. Sanders, Little Rock, for residence.

Ark., Little Rock.—C. C. Reid is having plans prepared by Charles Thompson, Little Rock, for $10,000 residence.

Ark., Little Rock.—Charles Lea will erect residence.

Ark., Little Rock.—E. W. Ford is having plans prepared by W. D. Holtzman, Jr., for $5000 residence.

Ark., Little Rock.—William Volkner has plans by H. J. Harker, Little Rock, for $7000 residence; construction begun.

D. C., Washington.—Howard M. Etchison, The Kalorama, will erect four dwellings on Le Roy Pl.; three stories, basement and attic; ornate colonial design; 15 rooms and 3 baths; cost $25,000 each.

D. C., Washington.—Kennedy Bros., 1336 H St. N. W., have plans by A. H. Sonneman, Chevy Chase, Md., for two-story brick store and dwelling at 766 Rock Creek Church Rd. N. W.; cost $10,000; construction by owner.

D. C., Washington.—Harry Wardman, 1342 New York Ave., has plans by A. H. Beers, 1342 New York Ave. N. W., Washington, for 16 two-story brick dwellings at 1337-71 Perry Pl. N. W., and one two-story frame dwelling at 1404 Delafield Pl. N. W.; cost $33,000; construction by owner.

Fla., Jacksonville.—H. D. De Grove will erect dwelling recently noted; stone and shingle; 24x44 feet; cost $4000; electric and gas lighting; cement tile sidewalk; contract not let.

Fla., Sanford.—B. P. Andrews, Florence Villa, Fla., will erect bungalow.

Ga., Atlanta.—Austell Thornton will erect residence.

Ga., Blue Ridge.—M. K. McKinney had plans prepared by J. N. Hoagland, 336 Sells Ave., Atlanta, Ga., for six-room dwelling recently noted.

Ky., Bowling Green.—Will Hatcher will erect residence.

Ga., Jasper.—Castle Cotton Mills, William T. Lang, president, will erect number of operatives' dwellings; brick and concrete facing; equipped for electric lighting, water and sewerage. (See "Textile Mills.")

Ga., Savannah.—John Ernst will erect 14 one-story dwellings.

Ga., Savannah.—John K. Culver will erect two-story residence.

Ga., Savannah.—D. D. Pounder will erect two-story frame store and dwelling.

Ga., Savannah.—Mrs. Mary A. Fitzgerald will erect two-story frame dwelling.

Ga., Savannah.—Charles Mordecai will erect residence.

Ga., Savannah.—Mrs. Annie Winbish will erect residence.

Ky., Pike County.—Consolidation Coal Co. will build 500 miners' dwellings; executive offices in Continental Bldg., Baltimore, Md.; Geo. C. Watson, vice-president, Fairmont, W. Va., in charge of construction. (See "Lumber Manufacturing Plants.")

La., New Orleans.—C. J. Gamble will erect residence; two stories; frame; cost $5000.

Md., Baltimore.—Charles S. Morton will expend $28,000 to erect 14 dwellings on Windsor Ave., between 7th and 8th Sts.; 15x60 feet; ordinary construction; steam heat; gas and electric lighting; cement sidewalks; plans by F. E. Beall, 213 St. Paul St., Baltimore; construction by owners. (Recently noted.)

Md., Baltimore.—John Welsh, 11-13 E. Fayette St., is having plans prepared by Jacob F. Gerwig, 210 E. Lexington St., Baltimore, for 17 dwellings on Loudon Ave.; pressed-brick fronts; two stories.

Md., Baltimore.—W. B. Brooks, Jr., Commerce and Water Sts., has plans by and will receive bids until February 11 through Emory & Nussear, 415 N. Charles St, Baltimore, for erection of four double dwellings at Canton; brick; three stories; gas and electric lights; plumbing; M. C. Davis, 15 E. Fayette St., Baltimore, is estimating.

Md., Baltimore.—Geo. S. Mann, 100 Equitable Bldg., is reported to erect residence at Altoona Park, on Harford Rd.

Md., Baltimore.—Eugene Biscoe, 1048 N. Eden St., has plans by J. F. Gerwig, 210 E. Lexington St., Baltimore, for nine dwellings on Woodlawn Ave., near Old York Rd.; two stories; brick; tin roof; hot-air heat; gas and electric lights, plumbing; cost $15,000.

Md., Baltimore.—Phillip C. Mueller Building Co., 3722 Foster Ave., will erect 159 dwellings on Foster and Falt avenues, 6th and 7th streets; two stories; cement yards, walks and cellars; electric lights; hot-air heat.

Md., Baltimore.—Frank Novak, 2808 Jefferson St., has plans by J. F. Hirt, 2808 Jefferson St., Baltimore, for 20 dwellings at 701-739 Lakewood Ave.; two stories; brick; 14x44 feet; hot-air heat; tin roof; cost $25,000.

Md., Baltimore.—St. Clair Spruill, 1102 Cathedral St., will erect dwelling on Magothy River, near Cockey Creek; frame; two and a half stories; shingle roof; hardwood interior; plumbing; dwelling will be 40x40 feet; mill construction; fireplaces; cost $2500; plans by Walter Gieske, Gunther Bldg., Baltimore.

Md., Catonsville.—William G. Scarlett, 729 E. Pratt St., Baltimore, Md., contemplates alterations and addition to residence; frame; two and a half stories; cost $10,000; architect not selected.

Md., Towson.—J. Harry West, Hanover and Fayette Sts., Baltimore, Md., has plans by and will receive estimates until February 11 through C. M. Anderson, 324 N. Charles St., Baltimore, Md., for erection of residence; contractors estimating are A. F. West, 15 E. Fayette St.; W. E. Harn Company, 213 N. Calvert St.; J. L. Robinson, 1325 Hollins St., and L. C. Woods, all of Baltimore, Md., and Jacob Fowble, Timonium, Md. (Previously mentioned.)

Miss., Meridian.—Alex. Loeb will erect residence.

Mo., Kansas City.—E. S. Truitt has plans by Clifton B. Sloan, Kansas City, for residence; 41x42 feet; red brick; cut-stone trimmings; cost $10,000.

Mo., Kansas City.—Homer B. Mann is having plans prepared by Frank S. Read, 602 Finance Bldg., Kansas City, for residence.

Mo., St. Louis.—Frieda Bick will erect three cottages; five rooms.

S. C., Anderson.—J. D. Brown has plans by J. H. Casey, Anderson, for dwelling; cost $15,000; day labor. (See "Machinery, etc., Wanted.")

S. C., Anderson.—Raymond Matison has plans by J. H. Casey, Anderson, for dwelling; two stories; six rooms; frame; cost $3500.

S. C., Charleston.—R. H. Pinckney will erect $4000 residence.

S. C., Spartanburg.—A. O. Simpson, president Farmers' Fertilizer Co., will not at present erect dwelling; construction will not begin for one year. (Recently noted.)

Tenn., Chattanooga.—C. E. Sprague will erect two dwellings on Ross St. near Grove St.; four rooms each; brick construction; metal roof; gas and electric lighting; hard pine interior finish; cabinet mantels; cost $2250.

Tenn., Dandridge.—F. B. Best is having plans prepared by Baumonn Bros., Knoxville, for residence.

Tenn., Franklin.—Presbyterian congregation will expend $4500 to erect manse; eight rooms; mill construction; cost $2500; will open bids February 15.

Tenn., St. Elmo.—Herbert W. Boal, 600 Georgia Ave., is having plans prepared by D. V. Stroop, Chattanooga, for dwelling; two stories; frame; shingle roof; cost $3500; bids will be received at once.

Tex., Hallettsville.—Otto von Rosenberg will erect bungalow-style residence; two stories; brick.

Tex., Cameron.—Jeff D. Hefley will erect residence.

Tex., Cameron.—L. H. Posey will erect residence.

Tex., Cameron.—W. A. Gillon will erect two-story dwelling.

Tex., Dallas.—R. McCormick will erect residence; two stories; cost $2500.

Tex., Houston.—Max A. Flaxman of Flaxman Dry Goods & Notion Co. will erect residence in Magnolia Park.

Tex., Houston.—R. M. Kirkpatrick will erect brick dwelling.

Tex., Houston.—L. B. Cox will erect brick residence.

Tex., Madisonville.—S. H. McNamee will erect residence; construction begun.

Tex., Madisonville.—James E. Morris will erect nine-roomg dwelling; construction begun.

Tex., Texarkana.—Robert Buchanan of Stamps, Ark., will erect $100,000 residence.

Tex., Victoria.—E. R. Fleming will erect residence; two stories; eight rooms; cost $6500.

Tex., Waxahachie.—Miss Lillie Chapman will erect residence.

Tex., Waxahachie.—W. M. Tidwell will erect cottage.

Tex., Waxahachie.—Lee Rogers will erect eight-room residence; construction begun.

Va., Big Stone Gap.—Baptist congregation will erect parsonage. Address The Pastor, Baptist Church.

Va., Clifton Forge.—George M. Farrar has plans by H. C. Allen, Hot Springs, Va., for colonial dwelling.

Va., Lynchburg.—Mrs. B. A. Carter will erect frame dwelling; slate roof; cost $3500.

Va., Lynchburg.—George A. Kerr will erect brick residence; cost $18,500.

Va., Norfolk.—E. A. Watkins & Bros. will erect eight brick residences; cost $12,800.

Va., Richmond.—Mrs. M. E. Hardy will erect two-story brick tenement-house; cost $5500.

Va., Richmond.—W. T. Lindsey has plans by Carneal & Johnson, Richmond, for eight dwellings costing $1500 each; 20x52 feet; ordinary construction; grates and stoves; construction by owner.

Virginia.—J. J. Puller of Pittsburg, Pa., purchased site on Rappahannock River and will erect residence.

Va., Roanoke.—J. D. Kirk will erect residence; cost $8000

W. Va., Warwood.—Walter & Lorenz will erect residence.

GOVERNMENT AND STATE

Ga., Milledgeville — Prison.—Bids will be received at State Farm, near Milledgeville, until noon February 15 for erection of prison building; plans and specifications may be obtained from Bruce & Everett, associated architects. Address proposals to R. E. Davidson, chairman Prison Commission, State Capitol, Atlanta, Ga. (Recently mentioned.)

Mo., Jefferson City — Capitol.—Legislature contemplates election to vote on issuance of $3,000,000 to $5,000,000 of bonds to rebuild State capitol reported burned at loss of about $1,000,000; Herbert S. Hadley, Governor.

Md., State Sanatorium—Hospital.—Board of managers of Maryland Tuberculosis Sanatorium approved plans for erection of additional building to accommodate about 200 patients; structure will also contain quarters for doctors, nurses, etc.; Howard Sill, 11 E. Pleasant St., Baltimore, Md., will prepare specifications and invite bids; structure will be erected from $1,000,000 bond issue authorized by Legislature. (Previously mentioned.)

HOTELS

Ark., Russellville.—F. M. Blaisdell of Fort Smith, Ark., prepared plans for three-story brick hotel to replace White House; at least 36 rooms.

D. C., Washington.—Salvation Army is reported as planning erection of $150,000 hotel; R. E. Holz, commander of Atlantic Coast Department, Philadelphia, Pa.

Fla., Lake Helen.—Rollins Abrams, proprietor Lake Helen & Realty Hotel Co., states improvements to hotel include painting, papering, new fencing, cement walks, etc.; will install hot-water heating and acetylene-gas lighting. (Previously noted incorporated to purchase and remodel hotel.)

Fla., Port St. Joe.—Port St. Joe Company of St. Louis, Mo., Apalachicola and Port St. Joe, Fla., P. H. Hemphill, vice-president, will erect hotel; 50 rooms; cost, without mechanical equipment, within $20,000; plans by J. M. Van Horn, Port St. Joe.

Ga., Gainesville.—H. H. Dean will remodel Hudson House Bldg. for hotel.

Ga., Valdosta. — Mrs. E. M. Devine will erect 75-room hotel to replace Florence Hotel.

Ky., Pike County.—Consolidation Coal Co. will build employes' hotel; executive offices in Continental Bldg., Baltimore, Md.; Geo. C. Watson, vice-president, Fairmont, W. Va., in charge of construction. (See "Lumber Manufacturing Plants.")

La., Abita Springs.—A. Mutti will probably erect hotel to replace structure recently reported burned; loss $75,000.

La., Lake Charles.—Lake City Hotel will erect 50-room addition; brick; three stories.

La., Monroe.—Bids will be received at Monroe Hotel February 25 for building three-story brick annex to Hotel Monroe; building is L-shaped, 40 feet wide, 100 feet one arm, 150 feet other arm; three stories; Van Auken system heating; tile floors, etc.; plans by Wm. A. Stanton, 501 First National Bank Bldg., Vicksburg, Miss. (Recently noted.)

Miss., Meridian.—R. A. Thorne will erect four-story hotel; 64x75 feet; brick; cost $30,000.

Mo., Kansas City.—J. D. Cosby, proprietor of Cosby Hotel, 9th St. and Baltimore Ave., will probably erect hotel; 10 stories; 115x40 feet; concrete; granite finish.

Okla., Holdenville.—P. B. McFarlin and others organized company to erect $40,000 hotel.

Okla., Oklahoma City.—Francis & Hackney will erect hotel and garage building; three stories; 50x120 feet; cost $20,000; lower floor for garage and upper floors for hotel.

N. C., Marshall.—Board of Trade, W. E. Finley, secretary-treasurer, is interested in proposed erection of $25,000 hotel.

S. C., Sumter.—L. D. Jennings, president Chamber of Commerce, is promoting organization of company with $10,000 capital stock to erect hotel.

Tex., Houston.—E. L. Dennis advises Manufacturers Record he has no plans for erection of hotel recently noted, and that report was unauthorized.

Tex., Palestine.—Geo. W. Burkitt will rebuild Burkitt Hotel.

Va., Richmond. — Progressive Business Building & Guaranty Co., I. R. Jeffers, managing director, is interested in erection of Progress Hotel to replace present Y. M. C. A. building; 66x163 feet; 12 stories; 200 guest rooms; roof garden covered in winter with plate-glass; sample room and fireproof vault in lobby.

Va., Salem.—J. E. Townes and O. D. Oaket purchased and will remodel Hotel Crawford.

W. Va., Williamson.—H. G. Charles contemplates erection of hotel.

MISCELLANEOUS

Ala., Birmingham—Clubhouse.—Shades Valley Country Club, Frank Y. Anderson, president, will erect clubhouse in Edgewood.

Ala., Ensley—Hospital.—Tennessee Coal, Iron & Railroad Co., Birmingham, Ala., will build emergency hospital.

Fla., Tampa.—Tampa Electric Co., J. A. Trawick, general manager, will erect car barns; capacity of 100 cars; cost $150,000.

Ga., Rome — Barn. — Porter Bros. (C. R. Porter and J. C. Porter) will rebuild barn reported burned at loss of $4500.

Ga., Union City.—Greater Georgia Development Co., J. H. Harris, vice-president, is having plans prepared for 50x100-foot wholesale feed, office and lodge building. (See "Bank and Office Buildings.")

Md., Baltimore County—Hall.—J. F. Gerwig, 210 E. Lexington St., Baltimore, Md., is preparing plans for building; two and a half stories; 30x60 feet; frame; brick foundations; hot-air heat; gas and electric lights; plumbing; cost $10,000; owner's name withheld.

Md., Relay—Fire Station.—Relay Volunteer Fire Co. approved report recommending erection of two-story fire station; plans prepared by Henry J. Tinley, 314 N. Charles St., Baltimore, Md., call for concrete foundation and frame structure 30x40 feet; first floor will contain aparatus and meeting-rooms, and second floor reception and entertainment hall; 35-foot tower for drying hose; steam heat; electric lights; cost about $3500.

Miss., Greenwood—Hospital.—King's Daughters adopted plans for addition to hospital; brick; two stories; contain seven rooms for patients, two operating-rooms, etc.; hall extending entire length of building on both floors; two bathrooms; steam heat; cost about $10,000.

Miss., Meridian—Clubhouse.—Standard Club will erect clubhouse; 50x75 feet; three stories; cost about $30,000.

Miss., Meridian — Sanitarium. — Meridian Sanitarium Co., Dr. M. J. Lowry, president, has plans by P. J. Krouse, Meridian, for three-story sanitarium; 50 rooms; brick and stone; steam or hot-water heat; electric lighting; electric elevator; cost $20,000; bids opened February 7. Address architect. (Recently noted.)

Mo., Columbia — Stadium. — University of Missouri is considering erection of concrete stadium. Address Prof. C. L. Brewer.

N. C., Salisbury — Stable.—Henkel-Craige Live Stock Co., Statesville, N. C., will erect brick stable, storage and office building.

Tenn., Kingsport.—Clinchfield Portland Cement Co. will build clubhouse.

Tenn., Memphis—Clubhouse.—Memphis Athletic Club will erect clubhouse; eight stories; fireproof; floors from third to seventh, inclusive, will be devoted to sleeping-rooms; 30 rooms on each of these floors equipped with baths and running hot and cold water; roof garden; site is 64½x147 feet; estimated cost $400,000.

Tex., Collegeport—Clubhouse. — Burton D. Hurd Land Co. is promoting organization of Mad Island Lake Hunting Club; will erect clubhouse and improve 1200 acres of land; L. S. Green, Houston, Tex., prepared plans for clubhouse; will contain 24 bedrooms, 12x18 feet each, with bath with hot and cold water; dining-room to be 24x30 feet, etc.; Mad Island Lake will be improved as hunting preserve.

Tex., San Antonio—Bathhouse.—Bids will be received until 11 A. M. February 10 for bathhouse at Harlandale, South Flores St. and San Antonio Ave.; separate bids are invited on excavating, concrete and brick work, general carpenter work, plumbing and heating; Alfred Giles Company, architect, San Antonio.

Tex., Taylor—Convent.—St. Mary's Catholic congregation will erect two-story convent for Sisters of St. Dominic. Address The Pastor, St. Mary's Catholic Church.

Tex., Trinity—Sanitarium.—Dr. F. Barnes will erect $15,000 sanitarium.

Va., Charlottesville — Clubhouse. — General Athletic Association of University of Virginia will erect building to cost $35,000 and annex to Colonnade Club building to cost $16,000; former will contain lockers, baths and necessary equipments for dressing purposes for visiting players and members of local athletic squads; latter will contain dormitories with baths for use of visiting alumni; plans prepared some time ago by Paul J. Pelz, 201-202 Corcoran Bldg., Washington, will be revised.

Va., Clifton Forge—Studio.—Hot Springs Valley Investment Co., Hot Springs, Va., has plans by H. C. Allen, Hot Springs, Va., for studio on Daniel Boone reservation.

Va., Richmond—Car Barn.—Richmond & Henrico Railway Co. will erect car barn; reinforced concrete and brick; 50x280 feet; one story; cost $15,000.

RAILWAY STATIONS

Ky., Lexington.—Lexington & Interurban Railway Co. will erect passenger and freight stations in towns surrounding Lexington reached by interurban lines. (See "Electric Light and Power.")

Md., Hagerstown.—Western Maryland Railway, J. Carmichael, engineer maintenance of way, Baltimore, Md., has plans and specifications for proposed depot; 125 feet long and 35 feet wide; estimated cost, $65,000; will open 40-foot sreet from Washington to Franklin St.

Okla., Chickasha.—Oklahoma Central Railway, W. G. Choate, general manager, Purcell, Okla., will erect passenger station; two stories; brick; cost $25,000 to $30,000.

Tex., Eagle Lake.—Gulf, Colorado & Santa Fe Railway, F. Merritt, chief engineer, Galveston, Tex., will erect combination passenger and freight depot; brick; concrete foundation; 116½x25 feet; will be surrounded by wide platform, making entire structure 148 feet long; glazed red tile roof; interior finished with plaster; concrete floors; each room to have wainscoting of glazed red brick to height of five and a half feet; cost $8000 to $10,000.

Va., Richmond.—Richmond, Fredericksburg & Potomac Railroad, S. B. Rice, engineer maintenance of way, is having plans and specifications prepared for freight depot and warehouse; brick, steel and concrete; plans not definite.

W. Va., Princeton.—Virginian Railway, H. Fernstrom, chief engineer, Norfolk, Va., contemplates, it is reported, erecting depot.

SCHOOLS

Ala., Athens.—Athens College will erect building to be known as Florence Brown Memorial Dormitory; colonial style; steam heat.

Ala., Florence. — Burrell Normal School plans erection of dormitory.

Ark., Bauxite. — Aluminum Company of America will erect school; saw-tooth plan roof, with skylights on two sides; six rooms; cost $6000; plans by company's engineer; New York office at 99 John St.

D. C., Ivy City.—Cuno H. Rudolph, John A. Johnston and William V. Judson, Commissioners, Washington, D. C., will receive bids until 2 P. M. February 16 for erection of six-room school; blank form of proposals and information from chief clerk, Engineer Department, Room 427 District Bldg., or may be had on deposit of $10

Ga., Boston.—City will soon let contract for erection of proposed school building; brick; cost $10,000; plans not completed; has issued bonds for $12,000; S. R. Blanton, Mayor.

Ky., New Castle.—New Castle School District voted $15,000 bond issue to erect school. Address District School Trustees.

La., Marthaville.—High School District will erect $20,000 high-school building; details not determined. Address District School Trustees. (Recently noted as planning to vote on special tax.)

La., New Orleans.—Loyola College, Rev. Albert Biever, president, will erect college buildings; Marquette Hall or main building will be five stories; 205 feet long; tapestry brick and concrete; front entrance of Bedford stone; stairs, floors and walls of concrete; second floor will contain auditorium, with gallery to seat 650 people; construction begun.

Md., Baltimore. — St. Mary's Industrial School, Wilkins and Caton Aves., is reported as having plans prepared by Robert C. Ulrich, 72 Gunther Bldg., Baltimore, for hospital building; stone; cost about $25,000.

Md., Baltimore. — Board of Awards, J. Barry Mahool, president, will receive bids at office of J. Sewell Thomas, City Register, City Hall, until 11 A. M. February 23, for material and erection of building for Polytechnic Institute on North Ave. near Calvert St.; certified check for $2500, payable to Mayor and City Council; plans and specifications at office of Edward D. Preston, Inspector of Buildings, City Hall.

Md., Frederick.—Board of School Commissioners, through Warren P. Laird of University of Pennsylvania, Philadelphia, Pa., will receive competitive plans until March 18 for high-school building; two stories and basement; upper floors to contain 10 classrooms; two rooms about 500 square feet each; library 800 square feet; basement to have two rooms for manual training at least 900 square feet, separated by glazed partitions; locker-room 1000 square feet; repair shop; storage and heating plants; hot-air heating plant; classrooms no smaller than 26x32 feet, to seat 42, or 22 feet 6 inches by 35 feet, to seat 40; exterior, bearing and stair walls of brick; wood partitions and floors; slate roof; natural stained woodwork; gravity ventilating system; cost not to exceed $55,000. (Recently noted.)

Md., Owings.—Maryland Asylum and Training School for Feeble-minded opened bids for erection of four buildings; Henry S. Rippel, 7 Clay St., Baltimore, Md., is lowest bidder at $134,629; plans by Ellicott & Emmart, Union Trust Bldg., Baltimore, Md. (Recently noted.)

Miss., Agricultural College.—Bids will be received by J. C. Hardy, president of Mississippi Agricultural and Mechanical College, until 1 P. M. February 28 for completion of fireproof chemical building; work includes placing reinforced-concrete floors and partitions, installation of steam heat and plumbing, etc.; certified check for 5 per cent. amount of bid, payable to the president; drawings, specifications and proposal forms from R. H. Hunt, architect, Chattanooga, Tenn., on deposit of $20.

Miss., Cleveland.—Bolivar County Agricultural School trustees will receive bids until 7 P. M. February 20 for construction of academic building; certified check for 4 per cent. amount of bid, payable to W. G. Hardee, secretary; plans and specifications at office of Wm. Drago, 1002 Perrin Bldg., architect, New Orleans, La.

Okla., Claremore.—City proposes expenditure of $8500 for site, construction and equipment of school building; H. Jennings, Clerk Board of Education.

Okla., Enid.—City has plans by R. W. Shaw, Enid, for proposed high-school building; 205x117 feet; three stories, basement and fourth-floor room; boiler and heating plant in basement; dark-red impervious brick; stone doorways; stone and terra-cotta trimmings; gymnasium 27x22 feet; auditorium to seat 500, with balcony to seat 250; rooms finished in rough plaster; hallways of glazed enameled brick; spiral fire escapes on each floor; domestic-science department equipped with gas stoves, ranges, etc.; fan-blast steam heat; electric lighting; cost $150,000; when title to site is acquired will advertise for bids.

S. C., Anderson.—Board of Trustees State Baptist Convention, Rev. Louis Bristow, president, Abbeville, S. C., is receiving competitive plans for college building; cost about $100,000; architects competing are J. H. Casey of Anderson, Shand & Lafaye of Columbia, S. C.; Wheeler & Stearn of Charlotte, N. C. (Recently noted.)

Tenn., Memphis.—Board of Education, A. B. Hill, secretary, will erect shop building in rear of Central High School building; plans by Alsup & Smith, Randolph Bldg., Memphis.

Tex., Bosqueville, R. F. D. from Waco.—McLennan county plans issuance of $7500 of bonds to erect brick and concrete school to replace present structure. Address County Commissioners, Waco.

Tex., Clarendon.—Clarendon College will erect girls' domitory; pressed brick; steam heat; to accommodate 100 girls.

Tex., Dallas.—Educational Commission of the Methodist Episcopal Church South, Bishop James Atkins, chairman, will erect buildings for university.

Tex., Greenville.—City Secretary will receive bids until February 15 for erection of two-story-and-basement reinforced concrete and brick school, including plumbing, heating and wiring; certified check for $1500; plans and specifications at office of Lang & Witchell, 622-24 Wilson Bldg., Dallas, Tex., or of the Mayor, Greenville.

Tex., Houston.—City has not selected architect to prepare plans for school building; 16 rooms; fireproof; direct and indirect steam heat; cost $50,000; P. W. Horn, superintendent of schools. (Recently noted.)

Tex., Llano.—High-school trustees are considering erection of addition to high-school building.

Tex., Mathis.—City voted $12,000 bond issue to erect school. Address The Mayor.

Tex., McKinney.—School Board is planning to erect two brick schools.

Tex., Navasota.—City is planning erection of manual-training school building. Address The Mayor.

Tex., Paris.—City will vote March 7 on $50,000 bond issue for improvements to ward schools, erection of comfort station and paving; E. H. McCuistion, Mayor.

Tex., Petty.—Independent School District has plans by Barry & Smith, Paris, Tex., for school building; ordinary brick construction; hot-air or steam heat; lighting not decided; cost $10,000 to $12,000. (Recently noted as planning issuance of $10,000 of bonds.)

Tex., Ysleta. — Ysleta school district defeated $18,000 bond issue to erect school. Address District School Trustees. (Recently noted.)

Tex., Trinity.—Trinity School District. J. Y. Renfro, secretary, plans expending $13,500 for school improvements.

Va., Clifton Forge.—School Board has plans by H. C. Allen, Hot Springs, Va., for school in Third ward.

Va., Danville.—School Board will receive plans until February 10 for grammar and high school; 13 rooms and auditorium; ordinary construction; cost $35,000; heating not decided; electric lighting. Address E. K. Jones; Chas. E. Hughes, clerk School Board. (Recently noted.)

Va., Graham.—School Board has tentative plans by H. M. Miller, Roanoke, Va., for proposed school; 14 rooms and auditorium; cost about $25,000.

Va., Portsmouth.—School Board has plans by C. M. Robinson, Richmond, Va., who will also supervise construction, for two grammar schools at Park View and Brighton; cost about $17,000 each. (Previously noted.)

Va., Richmond.—School Board asked City Council for $600,000 appropriation for erection of five white and four colored schools, as follows: $200,000 between July and January, 1911-12; $200,000 between July and January, 1912-13; $100,000 between July and January, 1913-14; $100,000 between July and January, 1914-15.

Va., Stuart.—City will expend $10,000 to erect school building; 60x62 feet; ordinary construction; direct and indirect steam heat; electric lighting; plans by G. R. Ragan, Salem, Va.; date of opening bids not set. Address architect. (Recently noted.)

W. Va., Rowlesburg.—Reno District Board of Education will erect eight-room school building recently noted; 60x92 feet; concrete basement; stone and brick above; specifications (by Clarksburg, W. Va., architect) not yet ready; bids to be opened soon; cost within $20,000. Address J. S. Shaver.

Va., Wytheville. — City will erect high-school building to cost $15,000. Address G. S. Sexton, Mayor.

STORES

Ala., Gadsden.—S. H. Kress Co., 396 Broadway, New York, will erect store building; two stories; 50x125 feet; brick, steel and plate-glass; cost about $25,000.

Ark., Harrison. — Cantrell-Magness Hardware Co. will erect business building; brick construction.

Ark., Lake Village.—Harry E. Cook will erect three store buildings; brick; plate-glass and marble front; concrete floors; tiled vestibules.

Ark., Little Rock.—Benzel Estate, Morehead Wright, agent, has plans by Charles L. Thompson, Little Rock, for store building to be occupied by Henry Leigh & Co.; 50x140 feet; one story and basement; cost $12,500; for further information address Mr. Wright. (Recently noted.)

D. C., Washington.—William A. Hill, 1333 G St. N. W., and Franklin T. Sanner, 1800 Adams Mill Rd. N. W., purchased site at 813 14th St. N. W. and will, it is reported, erect store building.

D. C., Washington.—William Hayden & Co. awarded contract to Baker & Perry, Washington, for remodeling building at 10th and F Sts. N. W.; will remove interior stairs, partitions on first floor and brick walls from cellar to level of second floor; will install elevators and show windows; plans by Nicholas R. Grimm, 627 F St. N. W., Washington.

Fla., Jacksonville.—O. P. Woodcock and others will remodel building at Adams and Clay Sts. for stores and offices; three stories; stone; first floor for stores; upper floors for offices; construction (by Mr. Woodcock) begun.

Ga., Alapaha. — Paulk-Gaskins will erect business building; 50x90 feet; brick.

Ga., Macon.—W. G. Lee will erect two business buildings on Third St.; one two stories; brick; marble front.

Ga., Macon.—Walter Dannenberg and I. Block will erect business building to be occupied by Merritt Hardware Co.; four stories; brick.

Ky., Bowling Green.—L. Greer & Son will erect store building; three stories; brick.

Miss., Meridian.—M. L. Edwards will probably erect store building; five stories; steel construction; cost $30,000.

Miss., Meridian. — Sam Floyd will erect business building.

Mo., St. Louis.—Grand Leader Realty Co., Charles A. Stix, president, will erect addition to store building; 75x79 feet; eight stories; fireproof; cost $100,000.

Mo., St. Louis. — Washington University will erect wholesale building to be occupied by Western Electric Co.; also has plans to erect another building.

Mo., St. Louis.—John, William and Robert Smith will erect business building; frontage 150 feet; three stories; cost $75,000; lower floor for stores; upper floors for offices.

N. C., Monroe.—Houston-Heath Realty Co. will erect business building; four stories; 44x180 feet.

N. C., Winston-Salem.—Wm. A. Church will erect store building; 40x48 feet; construction begun.

Okla., Tulsa.—C. H. Hatcher will erect store building; one story; brick; cost $5000; will contain five stores.

S. C., Anderson.—People's New Furniture Co. has plans by J. H. Casey, Anderson, for addition to building; 25x55 feet; four stories. (See "Machinery Wanted.")

S. C., Clinton.—Bailey & Little have plans by J. H. Casey, Anderson, S. C., for store building; 49x100 feet; pressed brick; plate-glass front; walk lights; metal ceiling.

S. C., Columbia.—Estate of C. H. Mason, C. B. Simmons and Mrs. E. M. Wright, executors, will open bids about March 1 for erection of business building; 51x176 feet; ordinary construction; terra-cotta; select brick; marble trimmings; steam heat; electric lighting; freight elevator; cost $40,000; plans by J. B. Urquhart, Columbia; architect may be addressed. (Recently noted.)

S. C., Florence.—R. E. Goertz will erect two-story store and office building.

S. C., Greenville.—B. F. and J. H. Rush, 215 Buncombe St., will erect store building; two stories and basement; brick; site 100x50 feet; construction begun; cost $7500.

Tenn., Memphis.—Mrs. John Gerber is having plans prepared by Shaw & Pfeil, Memphis, for store building for William R. Moore Dry Goods Co.; eight stories and basement; face brick and terra-cotta; natural light and air on all sides; electric freight and passenger elevators; sidewalk lifts, etc.; cost $275,000.

Tex., Bastrop.—W. J. Hill of Waco, Tex., will erect brick business building.

Tex., Comanche.—F. E. Adams will erect business building; one story; brick; frontage 60 feet; plate-glass front.

Tex., Dallas.—Alexander & Hogsett will erect brick business building.

Tex., Dallas.—A. D. Clark will erect business building; two stories; brick; cost $6000.

Tex., Gainesville.—S. H. Kress & Co., 396 Broadway, New York, will erect $20,000 store building; brick.

Tex., Houston.—August C. Bering, Sr., will erect store building to be occupied by Bering Tire & Rubber Co.; two stories; brick; foundation to carry additional stories.

Tex., Electra.—Edward Schlaffke will erect two-story 24x64-foot store building; frame; cost $1800; to be ocupied by Texas Hardware & Supply Co.; plans and construction by owner. (Recently noted.)

Tex., Madisonville.—N. M. Wycough will erect business building; two stories; brick.

Tex., Mercedes.—J. E. Buckley will erect business building under supervision of S. P. Silver, Mercedes; 50x80 feet; brick; plate-glass front.

Tex., Sweetwater.—Lang Aycock will expend $18,000 to erect store and office building; two stories and basement; 100x50 feet; mill construction; steam heat; electric lighting; concrete sidewalks; plans by Parry & Spicer, Sweetwater. (Recently noted.)

Tex., Waco.—Goldstein-Migel Company has plans by Scott & Pearson, Waco, for addition to store building; 50x25 feet; two stories and basement; basement to be 50x50 feet; ordinary construction; install freight elevator; cost $7000. (Recently noted under "Bank and Office Buildings.")

Tex., Waco.—William Cameron & Co. will erect business building to replace structure previously reported burned; five stories; reinforced concrete construction; concrete floors; pressed-brick front; elevator; three upper floors for offices.

Va., Portsmouth.—Joseph Grice has plans by Albion B. Roane of Stroud & Hooks, Portsmouth, for improvements to store, including remodeling present structure, erection of two-story addition in rear; will remove second story, making first floor 20 feet high with galleries around; second floor elevation of prism glass; will give building dimension of 50x100 feet.

Va., Richmond.—Kaufman & Company have plans by Albert F. Huntt, Richmond, for improvements to store, including erection of two additional stories to present structure and erection of five-story brick and stone addition, making total frontage 61 feet; glass showcase front; cost $60,000; bids opened February 10; contractors estimating are W. A. Chesterman, J. T. Nuckols and A. M. Walkup, all of Richmond.

Va., Roanoke.—Dr. H. E. Jones had plans prepared by H. M. Miller, Roanoke, for building recently noted; three stories; 25x90 feet; brick; inside mill construction; hot-water and steam heat; electric and gas lighting; cost complete $8000; store on first floor; seven-room flats above; equipped for living-rooms or offices; construction superintended by T. M. Crouch, Roanoke.

W. Va., Welch.—Strother, Taylor & Taylor awarded contract for plans to Pedigo & Garry, Bluefield, W. Va., for store building to replace burned structure.

THEATERS

Ark., Siloam Springs.—Ed C. McCulloh will erect opera-house; fireproof construction; seating capacity 500.

D. C., Washington.—George Howard and associates have plans by J. H. De Sibour, Hibbs Bldg., Washington, for theater and eight-story office building. (See "Bank and Office Buildings.")

S. C., Charleston.—Charleston Theater Co. organized with $25,000 capital stock; Albert Weis, president; Clarence Weis, vice-president; Charles R. Matthews, secretary-treasurer.

WAREHOUSES

Fla., Jacksonville.—O. P. Woodcock and others will remodel building for storage and store. (See "Stores.")

Ga., Macon.—Walter Dannenberg and I. Block will erect three-story brick building to be occupied by Williams Buggy Co. as carriage repository.

Mo., Joplin.—Ben C. Aylor, Webb City, Mo., will erect building; three stories; 93x120 feet; fireproof; brick; reinforced concrete floors; contain 34,000 square feet; cost $65,000; will be occupied by Black Bros. Furniture Co.; first floor will be used as warehouse and third floor as salesroom; bridge over alley will connect third floor of new building with second floor of building now occupied by Black Bros.

Mo., St. Louis.—W. E. Beckmann will erect warehouse; 4 stories; cost $12,500.

N. C., Salisbury. — Henkel-Craige Live Stock Co., Statesville, N. C., will erect building for storage, etc. (See "Miscellaneous Structures.")

S. C., Greenville.—Westervelt Mills will open bids February 10 for erection of 102x154-foot warehouse of three compartments. (See "Textile Mills.")

Va., Richmond.—Richmond, Fredericksburg & Potomac Railroad, S. B. Rice, engineer maintenance of way, is having plans and specifications prepared for warehouse and freight depot; brick, steel and concrete.

W. Va., Wheeling.—Klieves Lumber Co. will erect warehouse.

BUILDING CONTRACTS AWARDED

APARTMENT-HOUSES

D. C., Washington.—Alexander S. Clarke, 1645 19th St. N. W., awarded contract to Meitzler & Riley, Washington, for erection of store and apartment building on 18th St. N. W.; two stories and basement; 25x60 feet; first floor for stores; upper floor for apartments; brick; tile roof; plans by Speiden & Speiden, 1403 New York Ave. N. W., Washington.

D. C., Washington.—Alexander S. Clarke awarded contract to Meitzler & Riley, 1339 Massachusetts Ave. S. E., Washington, for erection of apartment and store building on 18th St. between S and T Sts.; two stories and basement; 35x60 feet; lower floors to contain two stores; upper floor will have two apartments of five rooms each; dark brick with light trimmings; tile roof; plans by Speiden & Speiden, 1403 New York Ave. N. W., Washington.

S. C., Columbia.—Ernest G. Cook awarded contract to F. D. McNulty, Columbia, for erection of New Marlboro apartment-house; three stories; cost $15,000; plans by James B. Urquhart, Columbia. This building was correctly noted in Manufacturers Record of January 26, but slightly confused in issue of February 2 with the New Southern, another apartment-house to be built by Mr. Cook at a cost of $16,000. As previously stated, bids for erection of the New Southern are to be opened about February 20, and plans for this building also were prepared by Mr. Urquhart. (See "Machinery Wanted.")

Tex., San Antonio.—Apartment-house for Dr. L. L. Shropshire, 407 Martin St., will be erected at cost of $250,000 to $300,000; as recently stated, plans and construction are by Brown & Lamberth Co., 815 Gunter Bldg., and sub-contracts will be let for automatic electric elevators, electricity and gas for lights and fuel, self-regulating steam-heating plant, centrifugal water-cooling system and electric vacuum dust remover; reinforced concrete fireproof structure; scagliola finish in lobby; corridors, baths, toilets and kitchens to have tile floors and wainscoting, finished in hardwood; building features include 75-foot observatory tower, garage, bowling alley, billiard hall, rathskeller and delicatessen, machinery and trunk rooms, lobby and social hall, stationery department, office, etc.; 3200 feet veranda space, 50x50-foot dancing pavilion, with 1500 feet in roof garden and promenade. The 225 living-rooms to be divided into 75 apartments, 12 single rooms, 75 private and 10 public baths, linen and janitors' rooms. Plans include completely-equipped roof playground for children, kitchen equipment, telephone system and sanitary garbage-removal system. (See "Machinery Wanted.")

ASSOCIATION AND FRATERNAL

Fla., Inverness.—Citrus Lodge, No. 118, Free and Accepted Masons, awarded contract to Winston & Dobson, Jacksonville, Fla., for erection of building; three stories; first floor for two stores; second floor for opera-house, and third floor for lodge; fireproof; electric lighting; cost $20,000; plans by W. B. Talley, Jacksonville; construction begun. (Previously noted.)

S. C., Sumter.—Young Men's Christian Association, L. D. Jennings, chairman building committee, awarded contract to Blue Ridge Construction Co., Box 52, Columbia, S. C., and of Augusta, Ga., and Asheville, N. C., for erection of three-story-and-basement brick building; 67x101 feet; ordinary construction; direct steam heat; cost $30,000; architects, Wilson & Sompayrac of Columbia. (Recently mentioned.)

BANK AND OFFICE

D. C., Washington.—Victor J. Evans, 9th and Grant Pl. N. W., awarded contract to Samuel J. Prescott Company, 814 13th St., Washington, for erection of office building to be leased by United States Government for Civil Service Commission; 71 feet 6 inches by 108 feet; fireproof construction; steam heat; two electric elevators; cost $158,000; plans by A. P. Clark, Jr., 816 14th St. N. W., Washington. (Previously mentioned.)

N. C., Winston-Salem.—Home Real Estate, Loan & Insurance Co. awarded contract to A. H. Walls of Winston-Salem to erect office and store building; three stories; mill construction; red pressed-brick front; plate-glass windows; 78 feet long and 30 feet wide; cost about $8000.

Tenn., Knoxville.—Union Bank awarded contract to Hoggson Bros, New York, for complete remodeling of bank building; cost $16,000; plans by Hudson Bros., New York. (Recently noted.)

W. Va., Huntington. — Twentieth Street Bank awarded contract to Thacker Bros. of Huntington to erect bank, office and lodge building; 30x80 feet; three stories; fireproof; estimated cost, $15,000.

CHURCHES

Okla., Enid.—German Menonite Brethren of North Enid township awarded contract for erection of edifice; 40x60 feet; seating

capacity 1000; cost about $5000. Address The Pastor, German Menonite Brethren of North Enid Township.

CITY AND COUNTY

D. C., Washington — Library. — Cuno H. Rudolph, John A. Johnston and William V. Judson, Commissioners, D. C., awarded contract to Davis Construction Co., Washington, for erection of Carnegie Library building in Takoma Park; 58x72 feet; one story and basement; red brick; white stone trimmings; slate roof; cost $40,000; plans by Marsh & Peters, 520 B St. N. W., Washington.

Ga., Augusta — Stockade. — City awarded contract at $12,670 to T. O. Brown & Son, Augusta, for erection of stockade to accommodate 160 convicts, and at $2654 to E. J. Erbelding, Augusta, for plumbing and heating; two stories and basement; "T" shaped, brick; fireproof construction; metal roof. (Recently noted.)

Va., Roanoke — Fire Stations. — Council committee on fire and water awarded contract to Herrington & Normoyle, Roanoke, for erection of three automobile fire stations; brick; steam heat; slate roof; size 27x44 feet; two stories each; ordinary construction; cost $6500 each. (Previously noted.)

DWELLINGS

Ark., Little Rock.—J. C. Dice awarded contract to William Peterson, Little Rock, for erection of two-story frame residence; cost $3500.

Ala., New Decatur.—John Hartung awarded contract to W. E. Spain for erection of residence; cost $3000.

Ala., Robertsdale.—Ellis L. Mumma awarded contract to P. G. Dahl, Robertsdale, for erection of residence; concrete; cost $6000.

Ark., Marion.—Dr. L. C. McVay awarded contract to T. F. Campbell, 2222 Center St., Little Rock, Ark., for erection of 35x40-foot dwelling; two stories; frame; hot-air heat; acetylene lighting; cost $4000; plans by Eely & Weller, Memphis, Tenn. (See "Machinery Wanted.")

Fla., Miami.—F. C. B. LeGro awarded contract for erection of residence.

Fla., Miami.—E. E. Jackson awarded contract to Smith & McQualde, Miami, for erection of two concrete dwellings; eight rooms; cost $4000 each.

Fla., Tampa.—W. H. Jackson will erect 30x51-foot dwelling, to cost $4000; ordinary construction; lighting to cost $100; concrete sidewalk; plans by Mr. Wilson, Los Angeles, Cal.; contract recently noted awarded to W. R. Page, Tampa.

Fla., Miami.—T. A. Winfield awarded contract for erection of residence.

Fla., Miami. — Frederick H. Rand, Jr., awarded contract for erection of residence.

Fla., Miami.—Richard A. Shine awarded contract for erection of residence.

Ky., Pike County.—Consolidation Coal Co. awarded contract for erection of 500 miners' dwellings; executive office in Continental Bldg., Baltimore, Md.; George C. Watson, vice-president, Fairmont, W. Va., in charge of construction. (See "Lumber-Manufacturing Plants.")

La., Shreveport.—George Freeman awarded contract to Grason Bros., Shreveport, for erection of residence; one and a half stories; frame; cost $8000.

Md., Baltimore.—Mrs. Mary Fear awarded contract to H. W. Thomas for erection of 12 two story dwellings on Pulaski and Smallwood Sts.; brick; 14x40 feet; hot-air heat; electric lights; cost $20,000; plans by F. E. Beall, 213 St. Paul St., Baltimore.

Md., Baltimore.—Wm. G. Scott, 741 N. Fulton Ave., awarded contract to Wm. F. Ludwig, 1000 W. Lafayette Ave., Baltimore, for erection of residence at Springdale & Oakdale Aves.; three stories; frame; cost $7500.

Md., Roland Park.—John C. Hemmeter, 1731 Linden Ave., Baltimore, Md., awarded contract to J. J. O'Connor, 427 E. Lexington St., Baltimore, for erection of residence at University Parkway and Kittery La.; three stories; 52x52 feet; brick and stone; concrete and granite foundation; upper portion steel and brick; red tile roofing; marble baths on each floor; cost $35,000; plans by R. C. Ullrich, 72 Gunther Bldg.; Henry Adams, engineer in charge, Calvert Bldg., both of Baltimore, Md. (Previously noted.)

Md., Roland Park.—R. M. Chapman awarded contract to Roland Park Co., 408 Roland Ave., Roland Park, for erection of dwelling at 111 Hawthorn Rd.; frame; two and a half stories; slag roof; steam heat; gas and electric lights; plans by E. L. Palmer, Jr., 408 Roland Ave., Roland Park. (Previously mentioned.)

New Braunfels.—Harry Schulze awarded contract to Moeller Bros., New Braunfels, for erection of residence; construction begun.

N. C., Rockingham.—Dr. A. C. Everett awarded contract to Dunns & Co., Rockingham, for erection of dwelling; two stories; frame; pine finish; electric wiring and fixtures; cost $5000; plans by Wheeler & Stern, Charlotte, N. C.

Okla., Oklahoma City.—O. P. Workman of Workman Real Estate Co. awarded contract to L. G. New & Son, Oklahoma City, for erection of residence; 82x42 feet; 12-foot terraced veranda on south side; porte cochere an east side; two stories and basement; brick veneered algonite stone; French doors; first-floor woodwork of quarter-sawed oak and beam ceilings; second floor enameled throughout; cost $12,000; plans by Layton, Smith & Hawk, Oklahoma City.

Tenn., Knoxville.—Hal H. Mitchell awarded contract to William Oliver, Knoxville, for erection of residence; eight rooms; cost $2500; plans by Wm. S. Gildard, Knoxville; construction begun.

Tenn., Memphis.—S. M. Nickey awarded contract to W. S. La Grill, Memphis, for erection of residence; brick veneer; concrete foundation; tile roof; two stories; cost $11,200, exclusive of heating, wiring and plumbing.

Tex., Bastrop.—A. Griesenbeck awarded contract for erection of residence.

Tex., Galveston.—Timothy Sullivan, 305 22d St., has plans by and awarded contract to M. C. Bowden, Galveston, for erection of three 30x35-foot dwellings; mill construction; electric lighting; concrete sidewalks; cost $2500 each. (Recently noted.)

Va., Lincoln.—J. Walter Smith awarded contract to A. J. Simpson, Round Hill, Va., for erection of residence to replace burned structure; 35x53 feet; stone and frame; hot-air heat; acetylene lighting; cost $3550.

Va., Norfolk.—R. L. Holland awarded contract to C. M. Casperson, Norfolk, for erection of frame residence; cost $3200.

Va., Norfolk.—W. T. Santos awarded contract to G. F. Cox, Norfolk, for erection of residence; brick; cost $5000.

Va., Portsmouth.—J. H. Flemming awarded contract to W. G. Wilburn, Portsmouth, for erection of four one-story cottages; cost $4400.

Va., Harrisonburg.—John Michael Flory has plans by and awarded contract to J. S. Heatwole Company, Harrisonburg, for erection of residence; frame; eight rooms; covered auto driveway; size 30x40 feet; mill construction; hot-air heat; cost $4000.

Va., Roanoke.—George MacBain awarded contract to Rhodes & Wade, Roanoke, for erection of residence; brick-cased construction; hardwood finish; slate roof; cost $10,000.

Va., Roanoke.—S. B. Pace awarded contract to Shockey & Field, Roanoke, for erection of residence; first story river boulders; upper portion of cement stripping; Queen Anne and rustic style; cost $15,000.

Va., Roanoke.—Lucian H. Cocke awarded contract to Rhodes & Wade, Roanoke, for erection of $4000 addition to residence.

HOTELS

Ark., Lake Village.—Lake Shore Hotel Co. awarded contract to A. G. Simms for erection of hotel; two stories; 38 rooms (12 with private baths); steam heat; intercommunicating telephones; cost $22,150; plans by F. W. Gibbs & Co., Gazette Bldg., Little Rock, Ark. (Recently noted.)

Ark., McGehee.—Scott McGehee awarded contract to Stewart-McGehee Construction Co., McGehee, for erection of $20,000 hotel recently noted; 70x148 feet; fireproof construction; cost of lighting $2000; plans by William Dill (address care of Mr. McGehee).

Ark., Helena.—Straub estate awarded contract to T. P. Reynolds of Greenville, Miss., for erection of hotel and business block; brick; terra-cotta trimmings; tile floors in office and dining-room; marble wainscoting and stairway; building will be three stories; 92x132 feet; ordinary construction; hot-water heat; freight elevator; cost $47,000; plans by J. M. Whitehead, Little Rock, Ark.

Tex., Temple.—W. C. Martin will expend $25,000 to erect hotel; 50x90 feet; three stories; ordinary construction; direct radiation system of heating; nob and tube system of lighting; elevator; plans by Roy E. Lane, Dallas, Tex. Contract recently noted awarded to E. Nelson, Waco, Tex.

Tex., Webster. — Houston Orchards Co., Chronicle Annex, Houston, Tex., awarded contract for erection of $10,000 hotel and roadhouse.

Va., Norfolk.—Edward Nicholson awarded contract to R. B. Darden, Norfolk, for erection of brick store; cost $6200.

MISCELLANEOUS

Ala., Selma—Sanitarium.—Dr. F. G. Du Bose awarded contract to J. F. Seale, Selma, for erection of sanitarium; to include three buildings, 86x43 feet, 20x20 feet and 40x60 feet; fireproof and ordinary construction; hot-water heat; passenger elevator; cost $12,000; plans by C. H. Hopson, Selma. (Recently noted.)

RAILWAY STATIONS

Ga., Athens.—Seaboard Air Line awarded contract to A. M. Walkup, Richmond, Va., to erect passenger station to cost about $60,000.

S. C., Greenwood.—Seaboard Air Line Railway, W. L. Seddon, chief engineer, Portsmouth, Va., awarded contract to Gwathney Engineering Co., Norfolk, Va., to erect passenger station; 30x80 feet; ordinary and mill construction; electric lighting; cost $8000. (Recently mentioned.)

SCHOOLS

La., Convent.—Jefferson College awarded general contract for erection of college to James Geary, New Orleans, La.; two stories; brick; slate roof; awarded subcontracts as follows: Salmen Brick & Lumber Co., lumber, brick, lime, sand, gravel and cement; Frank J. Matthew, painting; Campbell Glass & Paint Co., glazing; United Hardware Co., hardware; Fisherman & Montgomery, plastering; Brandin Slate Co., slate roof; C. C. Hartwell Company, Ltd., plumbing; all of New Orleans, La.; plans by Andry & Benderanagle, New Orleans. (Lately noted.)

La., Kentwood.—City awarded contract for erection of $30,000 school. Address The Mayor.

N. C., Durham.—Trinity College, W. P. Few, president, will expend $100,000 on erection of administration building recently noted; fireproof; 178x80 feet; steam heat; electric lighting; plans by Hook & Rogers, Charlotte, N. C.; contractors, Salmon & Salmon, Durham.

Tenn., New Tazewell.—City awarded contract for erection of proposed high-school building; brick; 75x80 feet; two stories and basement; slate roof; cost $12,000. Address The Mayor.

Tex., Burkburnett.—School Board, J. G. Harding, president, awarded contract to Charles M. Bialkowski, Jr., 506 Scollard Bldg., Dallas, Tex., for erection of school building; stone, brick and concrete; cost $13,570; plans by Hull & Spear, Fort Worth, Tex.; heating contract not let. (Recently noted.)

Tex., Temple.—City awarded contract at $59,900 to E. Nelson, Waco, Tex., for erection of high-school building, and at $17,000 to Collins Co., Fort Worth, Tex., for heating, plumbing and electric wiring, including steam-heating plant for old building; plans by Sanguinette & Staats, Fort Worth, Dallas and Houston, Tex. (Recently noted.)

Tex., Temple.—City awarded contract to E. Nelson, Waco, Tex., for erection of high school recently noted; cost $60,000; plans by Sanguinette & Staats, Fort Worth, Dallas and Houston, Tex. (See "Machinery Wanted.")

Va., Greenville.—Greenville School Board awarded contract to G. W. Fretwell of Staunton, Va., for erection of school; brick; cost $8000.

STORES

Ala., Florence.—J. W. Shepard will erect 25x150-foot business building; two stories; ordinary brick construction; gas and electric lighting; cost $6500; plans by owner; contract recently noted awarded to J. W. Gray, Florence. (See "Machinery Wanted.")

D. C., Washington.—Gifford Pinchot, 1615 Rhode Island Ave. N. W., awarded contract to C. A. Langley, 310 12th St. N. W., Washington, for improvements to building at 1233 17th St. N. W.; cost $14,000; plans by Boal & Brown, 1725 H St. N. W., Washington.

Fla., Tampa.—Thompson & Savary awarded contract to G. D. Winston, Tampa, for erection of one-story brick business building.

Tex., Austin.—Nelson Davis awarded contract to Fisher & Lamble, Austin, for erection of addition to building; cost $5000.

Va., Norfolk.—Edward Nicholson awarded contract to R. B. Darden, Norfolk, for erection of store; brick; cost $6200.

Va., Norfolk. — James Rankins awarded contract to Sawyer Bros., Norfolk, for erection of brick store building; 27x80 feet; brick; hot-water heat; cost $9000.

THEATERS

Fla., Jacksonville.—A. B. Vance awarded contract to A. J. Cessary, Jacksonville, for remodeling stores at Hogan & Bay Sts. for theater to seat 400; old-ivory finish; dome-shape box office, finished in curved plate glass; tile flooring in front; plans by J. H. W. Hawkins, Jacksonville, who will supervise construction.

WAREHOUSES

Tex., San Angelo.—Wool Growers' Central Storage Co. awarded contract to Willkie Bros., San Angelo, for erection of warehouse recently mentioned; 56x180 feet; cost $7000; for wool and mohair.

Va., Richmond.—J. A. Hatke awarded contract to J. Armheim Bros., Richmond, for erection of warehouse; four stories; 55x100 feet; mill construction; gas and electric lighting; electric elevator; cost $10,800; plans by Charles Fisher, Richmond.

RAILROAD CONSTRUCTION

RAILWAYS

Ala., Demopolis.—An official letter says it is expected to begin construction in about 60 days for the Birmingham, Demopolis & Pascagoula Railroad from Demopolis to Linden, Ala., 17 miles, including a bridge over Chicasee Bogue. Bids will be requested shortly. A. R. Smith is president, J. L. Marx treasurer, M. C. Webb secretary, Woolsey Finnell chief engineer.

Ala., Montgomery.—The Montgomery & Chattanooga Railroad Co. has filed incorporation articles to build a line from Montgomery to Anniston, Ala., via Central and Alexandria City. About $750,000, it is said, will be spent between Montgomery and Alexandria City, 52 miles; capital $50,000. The officers are: President, Benjamin Russell, who is president of the First National Bank of Alexandria City; vice-president, J. C. Haas; secretary and treasurer, W. T. Robertson, both of Montgomery. M. C. Stokes is also said to be interested.

Ala., Mobile.—President John T. Cochrane is quoted as saying that the Alabama, Tennessee & Northern Railroad has been built from Reform, Ala., to York, Ala., 72 miles, and grading is in progress south of York. His other line, the Combighee Valley Railroad, has been built from Nannahubba via Calvert to a point two miles north of Silas, Ala., and grading has been done and tracklaying is in progress for about 11 miles north of Silas. About 43 miles are yet to be graded between the two roads, which, when done, will make about 200 miles of line altogether. It is reported that overtures have been made to President Cochrane to build a branch of about 25 miles via Yantley, Ala., to Meridian, Miss.; also to Pensacola, Fla. Headquarters at Mobile, Ala.

Ark., Harrison. — The Harrison Mineral Belt Railroad Co., it is reported, has been granted an extension of 18 months to complete 10 per cent. of its proposed line. J. H. Kuder is vice-president and general manager. Several miles of track are laid. The line will run from Harrison via Jasper to Clarksville, Ark.

Ark., Portland.—An official of the Portland & Southeastern Railway is quoted as saying that nothing has been decided regarding the contemplated extension from Albritton, Ark., to Delhi, La., about 40 miles. H. A. Culver is superintendent at Portland, Ark.

Fla., Deland.—Col. R. A. Hammond of New York, it is reported, has organized a company to build an electric railway from De Leon Springs to Deland.

Fla., Wauchula.—The railroad to be built by Swann & Holtsinger of Tampa from Wauchula to connect with the Charlotte Harbor & Northern Railroad will be 10 miles long. Construction has begun.

Ga., Abbeville.—The Poor Robin Spring Railway Co. is reported organized to build a railway to the spring; capital $5000. N. M. Patten is president, A. J. Boney vice-president, M. C. Paxson secretary and W. A. Cherry treasurer. The road will be a narrow-gauge steam line two miles long. The directors also include W. L. Harrell, J. L. Bankston and J. R. Monroe.

Ga., Blakely.—The Blakely Southern Railway Co. has asked for a charter to build a line from Blakely to Jakin, 22 miles, upon which route a tramroad has been built for part of the way. Incorporators are W. C.

Snodgrass, W. D. Hargrave, J. S. Montgomery, T. I. McNeil, E. R. Jerger, W. M. Coon and J. H. Herbener, all of Thomasville, Ga.

Ga., Carnesville.—Promoters of the Carnesville Railway Co. are quoted as saying that they expect grading to begin within a month on the proposed line from Carnesville to Toccoa, 20 miles. W. S. Erwin of Clarkesville, Ga.; G. W. Edwards of Toccoa, S. J. Oliver of Carnesville and others are interested.

Ga., Macon.—The Central of Georgia Railway, says a press report, will build five sidings between Macon and Fort Valley, 29 miles, at a cost of $30,000. C. K. Lawrence is chief engineer at Savannah, Ga.

Ga., Waycross.—A dispatch says that the St. Marys & Kingsland Railroad Co. has decided to change its name to the Atlantic, Waycross & Northern, and to build its proposed line to connect Waycross, Douglas, Abbeville, Cuadilla, Fort Valley, Kingsland and St. Marys, Ga., with Jacksonville, Fla.; capital to be increased from $50,000 to $500,000. Capt. L. Johnson of St. Marys, Ga., and others are interested.

Ky., Glasgow.—A report says that construction of the Glasgow & Hodgenville Traction Co. line will not be started until March, 1912, as it has been determined to build the road on considerable private right of way, which will have to be secured Charles Van den Berg and others are interested.

Ky., Lexington.—The new financing for the Lexington & Interurban Railways, it is said, will make provision for some reconstruction of tracks, in addition to other work. I. L. Oppenheimer is general manager.

Ky., Yale.—The Licking River Railroad Co., it is reported, has decided to build immediately from Yale to Frenchburg, Ky., 15 miles; J. B. Shaw is general manager at Yale, Ky.

La., New Orleans.—The New Orleans, Fort Jackson & Grand Isle Railroad, otherwise known as the New Orleans Southern, has, it is reported, been purchased by a Canada syndicate headed by Chas. D. Warren, president of the Traders' Bank, Toronto, Canada, and he has been elected president of the road. It is understood that extensive improvements are to be made. J. S. Landry is superintendent at Algiers, La. A later report says the New Orleans Southern & Grand Isle Railway Co. has filed charter with $10,000,000 capital to fulfil the plans. The directors are Chas. D. Warren, Otto T. Maier and E. Howard McCaleb.

La., New Iberia.—Announcement is reported of a plan to build an electric interurban railway from New Iberia to Lafayette, La., about 75 miles, with F. W. Crosby of New Orleans as president. The Southwestern Power & Traction Co. is incorporated with $1,500,000 capitalization. Other lines from Morgan City to Jeanerette may also be built. Survey will begin within six weeks. It is said that financial arrangements have been made.

Md., Annapolis.—Robert Moss of Annapolis and others, says a dispatch, are interested in a plan to build an electric railway from Annapolis to Drum Point, Md., or some point near there, about 50 miles. James W. Owens of Annapolis, representing owners of the old Drum Point Railroad Co., is reported saying that 48 miles of its route (55 miles in all) have been graded and may be sold to a new corporation. The line runs from Millersville, Md., not far from Annapolis, to Drum Point.

Md., Chestertown.—The Kent Traction Co. proposes to build an electric railway from Tolchester to Chestertown, 10 miles, with a branch to Rock Hall, seven miles; capital, $200,000. Rights of way are reported secured for the main line. Incorporators are Frederick G. Usilton, Wilbur W. Hubbard, J. H. Sides, J. D. Bacchus, H. M. Kleinfelter, W. B. Copper and T. D. Bowers.

Md., Frederick.—The Frederick Railroad Co., says a dispatch, will build a loop around Frederick to interchange freight with the steam roads entering the city. O. B. Coblentz is chief engineer.

Miss., Columbia.—An officer of the New Orleans Great Northern Railroad writes that the company does not contemplate building any extension or making any improvements at present. This refers to the report that an extension to Hattiesburg was projected.

Miss., Meridian.—Joseph H. Bryan of Yantley, Ala., is reported agitating a proposition to build a railroad from Yantley to Meridian, about 20 miles. Survey is reported to have been made some time ago by A. C. Abercrombie of Montgomery, Ala., and Fred Harvey. C. F. Woods of Meridian is also said to be interested.

Mo., Columbia.—President D. C. Nevin of the Kansas City & St. Louis Electric Railway Co. is reported as saying at a meeting of the Columbia Commercial Club that construction bids will be received within a month, and it is intended to begin work at Columbia, working toward Kansas City; also that financing has been arranged; headquarters at Kansas City, Mo.

Mo., St. Louis.—Reported that E. A. Hildebrandt, T. G. Portis and C. F. Vogel will, for the St. Louis, Arcadia & Jefferson City Railroad Co. of St. Louis, apply to the Legislature for franchise for an electric railway from Grand Ave. and Wyoming Ave. to Bancroft Ave. and the western city boundary.

Mo., St. Louis.—Robert S. England of Festus, Mo., is reported to have purchased the property of the St. Louis, Webster Groves & Valley Park Railway Co., and he is quoted as saying that the company will be reorganized within two months and construction resumed. Line is from West End Heights to Webster Groves, Clayton, Kirkwood, Valley Park and Pacific, Mo.

N. C., Danbury.—An officer of the North Carolina Traction Co. is reported as saying that contract has been let to the Propst Contracting Co. of Charlotte, N. C., to build its proposed line from Winston-Salem, N. C., northward to Rural Hall and Lawsonville, N. C., and thence to Floyd, Va., 92 miles. There will be a steel bridge 600 feet long and several trestles. Maximum grade 2 per cent.; maximum curve 12 degrees. A. M. Clarke is president and H. P. MacKnight is chief engineer at Southern Pines, N. C.

N. C., Robbinsville.—G. B. Walker of Robbinsville may be able to give information about the proposed Graham County Railroad Co. recently reported.

N. C., Stackhouse.—The Madison County Railroad Co. is reported pushing construction of its line along the Laurel River, between Stackhouse and Allenstand, 10 miles. It will open lands of the Laurel River Lumber Co. Anson G. Betts and others are interested.

N. C., Winston-Salem.—A letter says that application will be made in a few days to charter the Forsyth & Yadkin Railway Co. to build a line through Forsyth, Yadkin, Allegheny, Ashe, Surry, Wilkes, Watauga, Iredel, Davie, Davidston, Rowan, Guilford, Rockingham, Caswell, Person, Granville, Vance and Warren counties; capital $125,000, which may be increased to $5,000,000. The incorporators are P. H. Hanes, G. W. Hinshaw, H. E. Fries, J. T. Benbow, H. G. Chatham, A. G. Page, A. H. Eller, H. R. Starbuck, F. T. Baldwin, F. P. Alspaugh, J. K. Norfleet, A. F. Sams, Geo. F. Dwire, A. E. Holton and C. B. Watson, all of Forsyth county, and F. W. Haynes, D. M. Reece, W. M. Wilmoth, A. Dinkins, George Stellman, W. A. Hall, L. B. Davis, Isaac Shore, J. C. Pinnix and W. T. Fletcher of Yadkin county. Address Winston-Salem.

Okla., Clinton.—According to a telegram, survey for the Clinton & Oklahoma Western Railway Co. has progressed as far as Woodward, Okla., and the survey from Butler to Shattuck is also finished. Survey will now be made from Butler to Canadian, Tex. Lastly, it will survey from Clinton to Chickasha, Okla.

Okla., Hugo.—A dispatch says it is proposed to build the Hugo & Atoka Railroad, to be 40 miles long. The Secretary of the Chamber of Commerce can probably give information. Already $75,000 of stock subscriptions are reported.

Okla., Lawton.—The Development Corporation of Philadelphia is said to be interested in the railroad proposed from Lawton via Duncan and Oil City to Ardmore, Okla. Among those mentioned as concerned are W. G. Sutton and H. R. Sutton of Philadelphia, H. L. Robertson and J. L. Harmon of Lawton.

Okla., Muskogee.—The Midland Valley Railroad Co. is reported as announcing that its extension north to Wichita, Kans., will be completed by September next. Construction will begin soon, as material is being assembled. C. Kaighn is engineer at Muskogee, Okla.

Okla., Oklahoma City.—The Oklahoma Railway Co. will hold a stockholders' meeting February 24 to increase capital stock from $3,000,000 to $15,000,000, it is reported, to build interurban lines to Guthrie, El Reno, Shawnee, Norman and other points. Headquarters at Oklahoma City. John W. Shartel is general manager.

Okla., Pawhuska.—J. H. Brewster, president Continental Construction Co., Independence, Kans., writes that on account of the suspension of the Carnegie Trust Co. it has suspended construction of the Cherryvale, Oklahoma & Texas Railway indefinitely.

Okla., Tulsa.—Official: The proposed Sand Springs Interurban Railway is to be seven miles long, from Sand Springs to Tulsa, along the Arkansas River. One 30-foot steel bridge and one 120-foot trestle will be required. Route mostly level. Electric or gasoline cars will be used. Incorporators and directors: Chas. Page, president and treasurer; W. E. Page, vice-president; W. E. Rhode, general manager; C. F. Tingley, secretary, and E. D. Forguer.

S. C., Greenville.—A bill to incorporate the Piedmont & Northern Railway Co. has been introduced in the Legislature by Senator W. L. Mauldin of Greenville, and is to extend the plans of the Greenville, Spartanburg & Anderson Railway, which is proposed by J. B. and B. N. Duke and their associates. The new company is to have lines in 14 counties of South Carolina, and it is to connect with the line in North Carolina; capital $5,000,000. The incorporators are J. B. Duke of Somerville, N. J.; B. N. Duke and Samuel McIlroberts of New York city; W. S. Lee of Charlotte, N. C.; Ellison A. Smyth and Lewis W. Parker of Greenville, S. C.

S. C., Orangeburg.—Construction is reported begun on the Orangeburg Railway, which is to run from Orangeburg to Springfield, 30 miles. Wm. C. Wolfe of Orangeburg and others are interested.

Tenn., Greenville.—Official: The Greenville & Nolichuckey Railway is proposed by John Heilman and others to build 30 miles of line from Greenville via Runnel Gap to Walton, Tenn., which would require one bridge of 700 feet long over the Nolichuckey River. Bids will be opened February 15. It will develop mineral and timber lands. John Heilman is president; J. C. Reading, vice-president; Joseph B. Heilman, secretary and treasurer; Walter R. Heilman, general manager; H. B. Emerson, chief engineer. Others interested are E. F. Layberger and E. W. Layberger.

Tenn., Knoxville.—W. J. Oliver, who has been appointed receiver of the Knoxville, Sevierville & Eastern Railway, is quoted as saying that the receivership proceedings will not prevent the consummation of the plan to connect the road with the Greenville & Knoxville Railway, and that Eastern capitalists are ready to finance the enterprise.

Tenn., Memphis.—President W. K. Burton of the Tennessee Traction Co. is quoted as saying that grading will begin in May on its proposed line between Memphis and Jackson, Tenn.

Tenn., Woodbury.—L. B. McFerrin is chairman and Jesse Davenport secretary of a local committee appointed at a mass meeting to work for the building of an interurban electric railway to connect Woodbury, Stone's River Valley and other sections.

Tex., Archer City.—An officer of the Southwestern Railway writes that the proposed extension from Archer City is 40 miles southwest. Nothing will be done for two or three months. A. C. Parks of Henrietta, Tex., is general manager.

Tex., Brownsville.—The Rio Grande Railway Co. of Brownsville has filed incorporation articles to operate the line from Brownsville to Point Isabel, 22 miles; capital $25,000. Incorporators are William E. Guy, Thomas H. West and B. L. Winchel of St. Louis; C. L. Macmanus of Brownsville; Claude Pollard of Kingsville; Frank Andrews of Houston, and others.

Tex., Buckeye.—The St. Louis, Brownsville & Mexico Railway has filed amendment to charter for a branch from Buckeye to Collegeport, 16 miles. E. C. Burgess is chief engineer at Kingsville, Tex.

Tex., Dallas.—The directors of the Texas Traction Co. at their annual meeting, it is reported, decided to complete the road according to the original plans and specifications, including ballasting and other track and roadbed improvements. The J. F. Strickland Company is the general manager. H. L. Monroe of Chicago, a director and also representing the General Electric Co., is quoted as saying that a line will be built from Dallas to Waxahachie, Tex., about 30 miles.

Tex., Fredericksburg.—The local railroad committee has agreed to raise $100,000 bonus for the first railroad operated into Fredericksburg. The committee is Charles H. Nimitz, Jr., chairman; Alfred Van der Stucken, August Cameron, Charles Schwartz, Jacob Knopp, Oscar Krauskopf and Temple D. Smith.

Tex., Linden.—Reported that the Jefferson & Northwestern Railway is surveying for a line from Lanier into Linden, five miles. S. N. Nichols is engineer.

Tex., Pecos.—A letter to the Manufacturers Record says that survey is being made for a railroad between San Angelo and Pecos, and it is reported that the Santa Fe is interested. Perhaps F. Merritt, chief engineer of the Santa Fe at Galveston, Tex., may be able to give information.

Tex., San Angelo.—President A. E. Stilwell of the Kansas City, Mexico & Orient Railway, is quoted as saying that an extension from San Angelo to Kerrville may be constructed. W. W. Colpitts is chief engineer at Kansas City, Mo.

Tex., Velasco.—Official: The proposed Gulf, Velasco & Northern Railroad is to run from the Gulf of Mexico to Sealy, Tex., 92 miles, via Brazoria, West Columbia, Damon, Midvale and Rosenberg. Two trestles will be required—one of about 225 feet and the other from 50 to 60 feet long. Route is level. The directors are D. A. Barr, president; C. Davis, first vice-president, Damon, Tex.; A. E. Bates, second vice-president, Brazoria, Tex.; S. L. Crockard, treasurer, and J. S. Bartlett, both of Columbia, Tex. C. S. Edwards may be made general manager.

Va., Barcroft.—The Washington & Barcroft Traction & Power Co. has applied for a charter in Virginia to build a line seven miles long from the Government bridge to Bailey's Cross Roads in Fairfax county; capital $5000 to $25,000. F. C. Handy is president and W. W. Wright vice-president, both at Barcroft, Va. C. P. Munson is secretary at Arlington, Va.

Va., Norfolk.—The Norfolk & Portsmouth Belt Line, it is reported, will extend its yard tracks at Pinners Point on land recently acquired. George S. Shafer is superintendent at Port Norfolk, Va.

W. Va., Fairmont.—Reported that contract for grading and masonry on the proposed extension of the Buckhannon & Northern Railroad from Rivesville, W. Va., to the Pennsylvania boundary, 32 miles, has been awarded to Patterson, Moran & Luck at $700,000. Contract for bridges and track is yet to be let. Chief engineer is S. D. Brady of Fairmont, W. Va.

W. Va., New Martinsville.—A press report says that the promoters of the proposed railway from New Martinsville to Middlebourne, W. Va., have decided to build a steam road instead of an electric line. The Mayor may be able to give information.

W. Va., Rowlesburg.—The Rowlesburg & Southern Railroad Co. is chartered to build from Rowlesburg to Parsons, W. Va., 20 or 25 miles; capital $50,000. The incorporators are W. H. Gillespie, G. C. Stitzinger, A. E. Stitzinger, E. E. Stitzinger and J. E. Stitzinger, all of New Castle, Pa.

W. Va., Princeton.—The Virginian Railway, it is reported, proposes to soon let contracts for grading to enlarge yard facilities at Princeton. H. Fernstrom is chief engineer at Norfolk, Va.

STREET RAILWAYS

Mo., Kansas City.—Clement C. Smith of Milwaukee, a contractor, may, it is said, build the lines on Oak St. and Chestnut St. for the Metropolitan Railway Co., of which John M. Egan is president.

N. C., Rocky Mount.—W. H. Powell of Scotland Neck and Robert McDowell of Tarboro, N. C., are reported seeking a franchise for a street railway in Rocky Mount. They are said to represent Baltimore capital.

Tex., El Paso.—A dispatch from Boston says that $20,000 of preferred stock of the El Paso Electric Co. is being offered for sale to provide for extensions and improvements. Stone & Webster Engineering Corporation, Boston, Mass., is interested.

Tex., Waco.—The Citizens' Railway Co. proposes to extend its line on 9th and 10th Sts. to Vermont St. and thence west.

Tex., Waco.—The Citizens' Electric Street Railway, according to a dispatch, proposes to make extension and improvements at a cost of $75,000. A. D. Brinkerhoff is secretary.

Glidden Products in Demand.

The Glidden Varnish Co. of Cleveland, O., has sent a special representative to South America to introduce its concrete finishes and waterproofings among the architects and engineers. Mr. Tornero, the company's representative, a native of South America, sailed on January 25 to locate permanently in Buenos Aires, where he will have entire charge of the development of the company's business in South American countries. Demands for the Glidden products are coming from every quarter of the globe, and the exports during the past year in concrete finishes was large. The principal sources of outlet are India, South Africa, China and South America.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers Record has received during the week the following particulars as to machinery and supplies wanted.

Advertising Specialties, etc.—Cosmopolitan Advertisers, 512 Paul-Gale-Greenwood Bldg., Norfolk, Va., wants to correspond with manufacturers of office, household and advertising specialties with a view to agency.

Air Compressor.—See "Quarrying Machinery."

Air Compressor.—Albert Garren, 1139 Ferry St., Easton, Pa., wants second-hand steam-driven air compressor, 200x400 cubic feet capacity.

Air Compressor.—C. B. Blake, Hartshorne, Okla., wants prices on air compressor suitable for quarry work.

Art Glass.—See "Building Materials."

Automobiles, etc.—Z. Friedland, 68 Twerskaya, Moscow, Russia, wants to correspond with manufacturers of automobiles and accessories with view of taking agency on commission basis.

Bags.—Thomas H. Cline, Charlotte, N. C., wants names and addresses of manufacturers of seamless bags; also bags of other description.

Baling Presses.—Wallace M. Quinn, Crisfield, Md., wants to buy second-hand baling press for pressing sea moss in 200-pound bales; also wants prices on new hand baling press.

Barrel Machinery.—See "Box Machinery, etc."

Boilers.—See "Quarrying Machinery."

Boiler.—W. Grant White, 101 W. Locust St., Johnson City, Tenn., wants prices on 45 to 50-horse-power tubular boiler with steel case setting, all necesary fixtures, etc.

Boiler and Engine.—Wellsburg Dairy Products Co., corner E and High Sts., Wellsburg, W. Va., wants prices on vertical boiler and engine.

Boiler.—A. J. Baldwin & Co., Dawson, Ga., wants prices on 100-horse-power high-pressure return-tubular extension-front boiler; complete with front and stack; standard specifications.

Boilers.—Lexington Machine Works, James Love, president, Lexington, Ky., wants agents' prices on boilers.

Bowling Alleys, etc. — Brown-Lamberth Company, 815 Gunter Bldg., San Antonio, Tex., wants prices on bowling alleys and billiard tables. (See "Building Materials, etc.")

Box Machinery, etc.—Mississippi Fish & Oyster Co., Pascagoula, Miss., wants to correspond with manufacturers of machinery for making boxes and barrels.

Bridge Construction.—Contract for building steel bridge will be let at Clinton, Ark., March 15; two spans of 110 feet; one 45-foot and one 60-foot approaches; tile piers in cement; 12-foot roadway; plans and specifications on file with J. W. Saeed, Van Buren County Clerk.

Bridge Construction. — Bids received at Clerk's office, Lawrenceville, Va., until noon February 15 for construction of steel bridge 285 feet long, with 12-foot roadway, across Great Creek, in Brunswick county; plans and specifications on file in Clerk's office, Lawrenceville, and of State Highway Commissioner, Richmond, Va.; certified check for $250 to accompany each bid; further information furnished on application to P. St. J. Wilson, State Highway Commissioner, Richmond, Va.

Building Materials, etc.—Brown-Lamberth Company, 815 Gunter Bldg., San Antonio, Tex., wants prices on steam-heating plant, electric plant, electric automatic elevator, cement, reinforcements, disappearing beds, electric cookers, tile floors and composition floors, cement waterproofing, marble wainscoting, plumbing fixtures, bowling alleys, billiard tables, sash and doors, finish hardware, materials for electric wiring and telephone, scagliola, etc., for $250,000 apartment-house.

Building Materials. — Huggins & Bates, Roanoke, Va., want prices on rolling partitions for classrooms in Sunday-school, art, glass windows, tile roof, galvanized cornice, white brick and stone for exterior work.

Building Materials.—J. D. Brown, Anderson, S. C., wants prices on hardwood floors, mantels, slate roof, columns and caps.

Building Materials.—Chas. A. Mize, secretary building committee, Commerce, Ga., wants prices on cement, lime, granite for coping, window sills, etc., mill work, window and door frames, windows and doors, sliding doors or partitions; for $6500 church building.

Building Materials.—James Lee Long, Hopkinsville, Ky., wants catalogues and other data on building materials of interest to architects.

Building Movers. — John Davidson, 1426 Kanawha St., Charleston, W. Va., wants names and addresses of parties moving brick buildings; Baltimore and Chicago parties preferred.

Canning Machinery.—J. H. Whyte, Times Publishing Co., 408 Marshall St., New Braunfels, Tex., wants prices on fruit and vegetable canning machinery.

Clock.—Clinchfield Fuel Co., Spartanburg, S. C., wants to correspond with manufacturers of stop-watch clock or some similar device suitable for timing long-distance phone conversations.

Column Machinery.—Davidson Lumber Co., Camden, S. C., wants prices on new or second-hand column-boring machine.

Compress Machinery.—R. L. Taylor, Grenada, Miss., wants second-hand (80-inch Webb preferred) cotton compress.

Conveying Machinery.—See "Plaster Machinery."

Creamery Machinery. — Wellsburg Dairy Products Co., corner E and High Sts., Wellsburg, W. Va., wants prices on milk separator, pasteurizer cooler, combined churn and worker; will use bottle system.

Crusher.—Florida Lime Co., Ocala, Fla., wants rock crusher of 80 or 100 tons daily capacity; for mining flint rock.

Crushing Machinery.—W. J. Deane, Gatesville, N. C., wants prices on machinery for crushing oyster shells.

Disappearing Beds.—See "Building Materials, etc."

Driers.—Manget-Brannon Company, Newnan, Ga., wants prices on grain driers.

Drill.—Florida Lime Co., Ocala, Fla., wants electric drill.

Electric Cookers. — See "Building Materials," etc.

Electrical Machinery.—See "Water-works."

Electrical Machinery.—See "Mining Plant."

Electric Motor.—Dr. George Brown, 312 Austell Bldg., Atlanta, Ga., wants prices on 12-horse-power electric motor.

Electrical Machinery.—Lexington Machine Works, James Love, president, Lexington, Ky., wants agents' prices on electrical machinery.

Electrical Machinery.—City of Cherokee, Okla., will receive bids about February 25, through engineers, Burns & McDowell, Kansas City, Mo., for installation of direct-connected 75-kilowatt 2300 60-cycle generator.

Electric Plant.—Brown-Lamberth Company, 815 Gunter Bldg., San Antonio, Tex., wants prices on electric plant. (See "Building Materials," etc.)

Elevators.—See "Building Materials," etc.

Elevator. — People's New Furniture Co., Anderson, S. C., wants prices on freight elevator.

Enameling Machinery, etc.—Laviada & Co., Gijon, Spain, want information and prices on enameling equipment, enamels and machinery for stamping and molding bathtubs, closet bowls and flow pipes for closets, etc.; also desire prices on furnaces and data with reference to enameling bathtubs.

Engraving (Photo.) Machinery.—A. W. McKeand, secretary Chamber of Commerce, Charleston, S. C., wants to correspond with manufacturers of photo-engraving machinery.

Engine.—W. Grant White, 101 W. Locust St., Johnson City, Tenn., wants prices on new or second-hand 35 to 40-horse-power side-crank throttling governor engine.

Engine.—See "Boiler and Engine."

Engines.—Lexington Machine Works, Jas. Love, president, Lexington, Ky., wants agents' prices on engines.

Engine.—See "Quarrying Machinery."

Engine and Pump.—T. F. Campbell, 2222 Center St., Little Rock, Ark., wants prices on gasoline engine and pump.

Excavating Machinery. — 82 Perin Bldg., Cincinati, O., wants excavator, drag-line type; describe fully, sending photo if possible; state condition, location, make and lowest price; also whether it swings in a full circle or otherwise.

Fire-escapes.—Sealed bids, in duplicate, to be opened by Board of Commissioners, Charleston, S. C., at 5 P. M. March 9, are invited for two fire-escapes for Charleston Orphan House, to be constructed in accordance with plans and specifications prepared by the City Engineer; copies of plans, etc., may be obtained from A. L. Barton, engineer of orphan house; original designs from contractors will also be considered by board, if accompanied by full description, plans and specifications, with contractor's guarantee of safety of structures under full load; bids to specify time required to erect fire-escapes; St. John P. Kinloch, secretary.

Fishway.—Department Public Works, Augusta, Ga. Proposals addressed to City Council will be received by canal committee until 4 P. M. February 9 for furnishing material and labor and constructing fishway of reinforced concrete over dam at locks; cash or certified check for $100 to accompany each bid; specifications and plan for above work can be had by applying at above office; Nisbet Wingfield, City Engineer and Commissioner Public Works.

Flour-mill Machinery.—J. B. Ensley, Sylva, N. C., wants catalogues and prices on roller-mill machinery, etc.

Furniture.—Port St. Joe Company, P. H. Hemphill, vice-president, Port St. Joe, Fla., wants prices on furniture for $25,000 hotel.

Game-Trap Manufacturers.—David Runion, Broadway, Va., wants to correspond with manufacturers relative to having patented trap made; trap for fish, small game or bear.

Gasoline Engine.—See "Engine and Pump."

Gas Producer Machinery.—Fernwood Lumber Co., Fernwood, Miss., wants information relative to machinery for converting yellow pine waste into producer gas for burning brick.

Glove Materials.—Louis P. Schlamb, 319 Brooke St., Lynchburg, Va., wants to correspond with dealers in husking cloth, canton flannel, knit tubing, stiffening and thread; also dealers in high-grade rag cuttings.

Grading.—J. W. Wright, Jr., Union Springs, Ga., wants to sublet part of contract for grading in Middle Georgia; team work; good material and prices; six months' work.

Graveling.—Thomas E. Ramsey, County Auditor, San Antonio, Tex., will receive bids until 11 A. M. February 10 for graveling 2½ miles of Bandera Rd.; specifications on file in office of County Auditor.

Hardware.—Z. Friedland, 68 Twerskaya, Moscow, Russia, wants to correspond with manufacturers of or dealers in hardware with view of taking agency on commission basis.

Heating Plant.—J. D. Brown, Anderson, S. C., wants prices on steam or hot-water heating plant.

Heating Plant. — Brown-Lamberth Company, 815 Gunter Bldg., San Antonio, Tex., wants prices on steam-heating plant. (See "Building Materials," etc.)

Heating Plant.—T. F. Campbell, 2222 Center St., Little Rock, Ark., wants prices on hot-air heating plant.

Heating Plant.—Port St. Joe Company, P. H. Hemphill, vice-president, Port St. Joe, Fla., wants prices on heating plant for $20,000 hotel.

Hoist. — Albert Garren, 1139 Ferry St., Easton, Pa., wants second-hand 8x10 or larger double-cylinder single or double-drum hoist; no boiler; friction or reversible link motion.

Hoist.—E. Nelson, Waco, Tex., wants prices f. o. b. Temple, Tex., on steam hoist.

Hydrants.—See "Water-works."

Iron Column, etc.—J. W. Gray, Florence, Ala., wants prices on cast-iron columns, lentils and sills.

Knitting Machinery.—Robert E. Lee, Lamberton, N. C., wants data and prices on hosiery knitting machinery.

Knitting Machinery.—Mississippi Fish & Oyster Co., Pascagoula, Miss., wants to correspond with manufacturers of knitting machinery.

Lead.—Baltimore (Md.) Board of Awards will receive bids at office of City Register, City Hall, until 11 A. M. February 15 for furnishing and delivering to Water Board, at its Gay St. yard, Gay and Wolfe Sts., 50 tons, 2000 pounds per ton, of Omaha pig lead; specifications for the lead may be obtained at office of Water Engineer, City Hall; proposals to be accompanied by certified check for $500; Alfred M. Quick, Water Engineer.

Levee Construction, etc.—Chapel Hill, Tex. Sealed proposals will be received by Commissioners of Washington County Improvement District No. 1 until 2.30 P. M. March 2 at office of County Judge, Brenham, Tex., for construction of about 10 miles of levees and installation of floodgates in Brazos bottom, Washington county, Tex.; specifications, profiles, etc., may be obtained from J. M. Howe, improvement engineer, 722 First National Bank Bldg., Houston, Tex.; copies may also be seen at office of Buchanan & Stone, Brenham, Tex., and at residence of Commissioner J. F. Buchanan, Chapel Hill, Tex.; bidders are to take bonds of Washington County Improvement District No. 1 in payment; bond issue $57,000; each bid to be submitted upon form furnished by improvement engineer and be accompanied by certified check, payable to J. F. Buchanan, chairman of Commisioners, for 5 per cent. of total amount bid.

Lighting Plant.—Port St. Joe Company, P. H. Hemphill, vice-president, Port St. Joe, Fla., wants prices on lighting plant for $20,000 hotel.

Locomotive.—Huettel Coal & Coke Co., Norton, Va., wants new or second-hand 10-horse-power mine locomotive for 44-inch track; to be used for inside and outside hauling of coal.

Locomotive.—Pennsylvania Equipment Co., West End Trust Bldg., Broad St. and South Penn Sq., Philadelphia, Pa., wants prices on standard-gauge four-wheel saddle-tank locomotive, 10 to 18 tons.

Machinery.—Palmetto Supply Co., Spartanburg, S. C., in market for full line of machinery.

Manganese.—Dr. George Brown, 312 Austell Bldg., Atlanta, Ga., wants prices on black oxide of manganese in quantities.

Marble-finishing Machinery. — Appalachian Marble Co., Knoxville, Tenn., will install diamond saw, polishers, planers, etc., for marble.

Metal Ceiling.—J. W. Gray, Florence, Ala., wants prices on metal ceiling.

Mill Stones.—Z. Friedland, 68 Twerskaya, Moscow, Russia, wants to correspond with manufacturers of or dealers in mill stones with view of taking agency on commission basis.

Mill Supplies.—Palmetto Supply Co., Spartanburg, S. C., in market for mill supplies.

Mill Supplies.—Lexington Machine Works, James Love, Lexington, Ky., wants agents' prices on mill supplies.

Milling Machine.—Cates Machine Works, Burlington, N. C., wants to purchase milling machine.

Mining Plant.—Oklahoma Coal Co., J. P. Davison, manager, Dewar, Okla., invites plans and bids for installation and erection of power plant and complete electric mining machine plant; five of mines to be equipped with machines to be handled from central power plant or present plant increased in capacity to handle proposed increased equipment.

Molding Machinery.—See "Enameling Machinery, etc."

Motor Pulleys. — Louis P. Schlamb, 319 Brooke St., Lynchburg, Va., wants new or second-hand 7½, 3, 1, ¼ horse-power 1800 R. P. M. 220-volt motor pulley, 60-cycle, three-phase, 5-inch diameter, 4½-inch, 4½ inch diameter, 3½-inch, 3½-inch diameter, 2½-inch and 2½-inch diameter, 2-inch face, respectively.

Oil Mill Machinery.—Georgetown Grocery Co., Georgetown, S. C., wants names and adddresses of manufacturers of cottonseed oil mill machinery.

Ore-reducing Machinery.—Z. Friedland, 68 Twerskaya, Moscow, Russia, wants to correspond with manufacturers of equipment for reducing ores with view of taking agency on commission basis.

Paint Machinery, etc.—Charles A. Shelor, Rapid Transit Development Co., Tribune Bldg., New York, wants to correspond with manufacturers of machinery for grinding, drying and mixing red oxide of iron and ochres; also wants to correspond with dealers in paint pigments.

Paper Mill Machinery.—J. M. Hatch, McColl, S. C., wants to correspond with manufacturers of paper mill machinery.

Paving.—James Knox Taylor, supervising architect, Treasury Department, Washington, D. C., will receive bids until 2 P. M.

February 27 for paving alley on north of United States postoffice and courthouse at Little Rock, Ark., in accordance with drawings and specifications, copies of which may be had at office of custodian at Little Rock or at above office, at discretion of supervising architect.

Paving.—City of Newbern, N. C., invites proposals until 8 P. M. February 28 for paving about 40,000 square yards of streets with brick, cement filler; with brick, sand filler; bitulithic and asphalt macadam; all or part to be made in either kind of pavement; plans and specifications will be furnished upon application; bids must be accompanied by certified check for $250; F. T. Patterson, City Clerk.

Paving.—J. B. Winslett, City Secretary, Dallas, Tex., will receive bids until 3 P. M. February 13 for paving Griffin St. from Cochran St. to Pacific Ave.; each bidder to bid separately on following materials: Bitulithic pavement on concrete base; creosoted pine blocks on concrete base; vitrified-brick blocks on concrete base; specifications on file in office of City Secretary; certified check, $500. Mr. Winslett will also receive bids until 3 P. M. February 13 for paving Houston St. from Main to Elm St.; each bidder to bid separately on following materials: Coffeyville vitrified paving blocks; concrete curb; concrete gutter; combination concrete curb and gutter; specifications on file in office of Mr. Winslett; certified check, $80.

Paving.—L. S. Polk, City Secretary, Sweetwater, Tex., will receive bids until March 4 for construction of 22,000 square yards macadam-asphalt street paving; two bids to be submitted, one to include grading at cost per cubic yard, with haul of 100 to 700 feet, and one without such grading and haul; specifications may be obtained at office of City Engineer; each bid to be accompanied by certified check for $500.

Piping.—City of Cherokee, Okla., will receive bids about February 25, through engineers, Burns & McDowell, Kansas City, Mo., for standard water pipe.

Piping.—Albert Garren, 1139 Ferry St., Easton, Pa., wants second-hand lot 2-4 and 6-inch iron pipe.

Piping, etc.—Office of Armory Board, State of Florida, Jacksonville, Fla. Proposals for furnishing 600 feet of iron pipe, etc., will be received by secretary until 12 noon, February 13; information on application; Fred G. Yerkes, secretary, 16-20 E. Bay St.

Plaster Machinery.—Charlotte Plaster Co., Charlotte, N. C., will want prices on shafting, pulley, hangers, belting, fiber machine, mixers, clay grinder, conveyors and elevators, electrical equipment, etc.

Plumbing Material.—T. F. Campbell, 2222 Center St., Little Rock, Ark., wants prices on plumbing material.

Potash.—Dr. George Brown, 312 Austell Bldg., Atlanta, Ga., wants prices on chlorate of potash in large quantities.

Power Plant.—See "Mining Plant."

Pulleys.—See "Motor Pulleys."

Pump.—See "Engine and Pump."

Pump.—Dr. George Brown, 312 Austell Bldg., Atlanta, Ga., wants prices on compressed air electric pump.

Pumps.—Albert Garren, 1139 Ferry St., Easton, Pa., wants two second-hand high pressure pumps, 6-inch suction and 5-inch discharge.

Quarrying Machinery.—Greater Georgia Development Co., J. H. Harris, vice-president, Union City, Ga., wants prices on second-hand 100-H. P. boilers, engine, 100 or smaller; also rock crusher, rock drills, air compressors and granite tools.

Rice and Sugar Mill.—W. G. Wilker, Richland, Fla., wants to purchase rice and sugar mill.

Road Construction.—C. J. McKenna, Tarrant County Auditor, Fort Worth, Tex., will receive bids until 10 A. M. February 14 for completion of work on T. C. U. road as follows: Sufficient fill at west approach to bridge and completion of that portion of road lying along east side of Forest Park, including concrete arch 6x72 feet; each bid to be accompanied by certified check for $250.

Rolling Partitions.—See "Building Materials."

Safe, etc.—Charlton Du Rant, president, People's Bank & Trust Co., Manning, S. C., wants prices on safe, vault and bank fixtures.

Seals.—Montgomery.—Coca-Cola Bottling Co., N. Perry and Jefferson Sts., Montgomery, Ala., wants prices (delivered) from manufacturers on 50,000 to 80,000 seals such as used for "Coca-Cola" bottles.

Scagliola.—See "Building Materials," etc.

Sewer Construction.—D. M. Coleman, Mayor, and City Council, Uniontown, Ala., receive bids until 8.15 P. M. February 13 for sewer system and sewage-disposal plant in accordance with plans and specifications on file in office of D. M. Coleman, Mayor, and of Edgar B. Kay, engineer, Tuscaloosa, Ala. (Further details lately stated.)

Sewer Construction.—City of Clinton, Okla., will receive sealed proposals until 8 P. M. February 21 for construction of 26,200 feet of eight-inch lateral sewers of first quality vitrified pipe, together with manholes, lampholes and other appurtenances; all bids must be accompanied by certified check of 5 per cent. of amount of bid, made payable to City Treasurer; bids must be on blanks furnished by city and addressed to J. G. Welch, Mayor, and marked "Proposals for Sewerage"; plans and specifications are on file and may be obtained from C. C. Smith, City Clerk, or J. L. O'Hearn, City Engineer; plans and specifications will be given only on receipt of deposit of $10; usual rights reserved.

Sewer Construction.—Baltimore (Md.) Board of Awards will receive bids at office of J. Sewell Thomas, City Register, City Hall, until 11 A. M. February 23 for constructing trunk sewers in Pratt, Greene, Baltimore and Pearl Sts. (sanitary contract No. 62), as shown on plans on file in office of Calvin W. Hendrick, chief engineer of Sewerage Commission. Specifications and plans can be obtained upon application at office of Sewerage Commission, Room 904 American Bldg., Baltimore; charge of $5 will be made for each specification and blueprints; certified check for $2500 to be deposited with each bid. Approximate quantities: 44 linear feet 30-inch diameter brick and concrete sewer; 5050 linear feet terra-cotta pipe sewer, 12 to 24 inches in diameter; 3800 linear feet six-inch house connections and standpipes; 4100 linear feet excavation in tunnel; W. D. Platt, chairman pro tem.; Harry W Rodgers, secretary of Sewerage Commission.

Shafting, Pulleys, etc.—See "Plaster Machinery."

Stoves and Ranges.—W. C. Smith, Jefferson, Ga., wants names and addresses of manufacturers of asbestos ring or wick kerosene oil stoves and ranges.

Stamping Machinery.—See "Enameling Machinery, etc."

Sugar Mill.—See "Rice and Sugar Mill."

Tank.—T. F. Campbell, 2222 Center St., Little Rock, Ark., wants prices on 500-gallon (or more) tank.

Tile.—F. D. McNulty, Columbia, S. C., will purchase tile for $15,000 apartment-house.

Telephone Equipment.—Bladen Telephone Co., John McDowell, general manager, Elizabethtown, N. C., wants prices on supplies for central exchange and 75 or 100 miles of country telephone line.

Turpentine Machinery.—See "Wood-pulp Machinery."

Water-works Equipment.—City Council, E. A. Perry, Mayor, Hamilton, Tex., receives bids February 6 for furnishing 3000 feet of eight-inch and 6000 feet of four-inch C. I. pipe and necessary specials; also lead to lay same, 11 hydrants, 7 valves, 1 tank and tower, 50,000 gallons capacity; F. H. Lancashire, engineer in charge, Dallas, Tex.

Water-works.—City Council, R. E. Ward, Mayor, Georgetown, Tex., receives bids February 8 on power-house machinery, concrete power-house, laying pipe, furnishing hydrants and valves; F. H. Lancashire, engineer in charge, Dallas, Tex.

Wireless Telegraph Station.—Dr. George J. Hillinghorst, Ruatan, Honduras, wants data and prices on wireless telegraph station.

Water-works.—City of Chaffee, Mo., will receive bids until 8 P. M. March 1 for extension to water-works; M. S. Murray, Sikeston, Mo., is engineer in charge; H. C. Hester, City Clerk.

Well-drilling.—Commissioners' Court of Dallam County, Dalhart, Tex., will receive bids until 10 A. M. February 13 for sinking 2000-foot well; specifications can be seen at office of Dalhart Abstract Co., Dalhart, Tex.; certified check for $1000 to accompany each bid; C. S. Harrington, County Judge, Dalhart, Tex.

Wood-pulp Machinery.—Standard Turpentine & Wood Pulp Co., O. M. Grady, general manager, Macon, Ga., will want boilers, engines, hog or chipper for 50 cords, steam digestors or retorts and condensers for turpentine vapors.

Vice-President of Windsor Trust Co.

The directors of the Windsor Trust Co., New York city, have elected Edward T. Perrine, until recently Deputy Comptroller of the State of New York, vice-president. August Heckscher is president of the company.

INDUSTRIAL NEWS OF INTEREST

Wants Promoter for Health Resort.

J. E. Snyder, Limona, Fla. (near Tampa), wants to engage a promoter for a winter health resort, and offers attractive inducements to the right party.

Agencies Wanted.

A general agency on commission for high-class building or mechanical lines to augment a well-established Pacific-coast trade, having subagents in the best cities and towns, is desired, and highest references are offered. Correspondence is invited by J. C. C., 1014 Savier St., Portland, Ore.

James Lee Long, Architect.

Among the Kentucky architects is James Lee Long of Hopkinsville, who is prepared to furnish plans and specifications for all kinds of buildings. Mr. Long invites manufacturers to send catalogues and other data regarding building materials and methods of construction interesting to architects.

Removes Plant to Emporia, Va.

The Ross-Heaton Manufacturing Co., Inc., manufacturer of the Ross-Heaton fastener for automobile and carriage storm curtains, etc., announces that it has removed its plant from Richmond to Emporia, Va., and is now in a position to manufacture all classes of stamped work and sheet-metal novelties.

Greenwald Company Elects Directors

The I. & E. Greenwald Company of Cincinnati held its annual meeting January 30 and elected directors for the ensuing year. All the old directors were re-elected but one, Luke Lilley of the Devere Electric Co. being substituted. At the election of officers W. B. George, treasurer, was made general manager in addition and Edward Estep was made shop superintendent. Business was reported in good condition in all departments.

Keller Concrete Machinery.

The Keller Concrete Machinery Co. of Kearney, Neb., desires to make arrangements with a well-organized and modern manufacturer to manufacture and sell its concrete machinery in the eastern half of the United States and Canada. Among the Keller products are block, brick, post and column machines and the Keller visible concrete mixer, hand or blower, of high capacity and at reasonable prices. Correspondence is invited.

Engaged in Private Engineering.

E. F. Layman, C.E., has been engaged in private practice at 42 Blymyer Bldg., Cincinnati, O. For several years he was the city sewerage engineer, and previously had done a large amount of sewerage and water supply work in the Middle West. His experience covers these branches as well as general municipal improvements, traction and steam railways, and industrial plants, bridges and concrete construction, on all of which he makes examinations, estimates and reports.

Partner or Associates Wanted.

For the purpose of purchasing 2200 lots immediately joining Ardmore, Okla., partners or associates with capital to invest are desired. Ardmore is a progressive town and has many natural resources under development and in prospect of development. W. P. Poland of Ardmore announces that he will take a one-third interest in the lots, leaving a balance of $27,500 to be paid by associates, one-half cash and balance in one and two years. Address Mr. Poland for details regarding the proposition.

Eclipse Concrete Mixers at Cement Show.

The Eclipse low-charging concrete mixers manufactured by the Standard Scale & Supply Co. of Pittsburg, Pa., will be exhibited at the Chicago Cement Show at the same spaces occupied last year (Nos. 199-200), and will include both gasoline and steam outfits and machine in operation. The mixer in operation will have a large opening in the drum, enabling those interested to see actual process of the mixing in the drum. It will also show how the material is discharged after it is mixed.

Sale of Foundry Equipment.

In accordance with a decree of the Circuit Court of Baltimore City, John S. Biddison, 409 Law Bldg., Baltimore, and Jesse N. Bowen, 825 Equitable Bldg., Baltimore, receivers, will sell at public auction on the premises, at Bush and Severn Sts., Baltimore, on the 24th of February, at 10 o'clock A. M., all the property, machinery, equipment, supplies, etc., of the Baltimore Foundry Co. The machinery and other properties will be first offered as an entirety, and if no sufficient bid is made, the different items will be offered separately. Schwab Bros. & Co., 601 Fidelity Bldg., Baltimore, are the auctioneers.

To Sell Manufacturing Plant.

A manufacturing plant at Iowa City, Ia., manufacturing gasoline engines, feed grinders, grain elevators, pumping jacks, etc., will be sold at public auction at the factory on March 4. The plant has switching connections to the main line of the Rock Island Railway and a street-car connection with the city, the sale to include all equipment, good-will, together with the materials and stock on hand. For particulars address the O. S. Kelly Western Manufacturing Co., Iowa City, Ia.

Property to Exchange.

The Keller Concrete Machinery Co., Kearney, Neb., announces that it desires to exchange a tract of 1440 acres of land six miles from the North Platte River, all newly fenced in one body, with windmills and tanks, and having about 500 acres of small valleys running through it. Will take in a smaller farm or income property. The company states that it also has a concrete fence post mold to sell or trade by county or State, and will pay a 30 per cent. commission to the right party for the sale of its other products.

To Sell Property of Lumber Company

By virtue of an order of the United States Court for the Western District of North Carolina, D. S. Hildebrand, trustee, Asheville, N. C., will sell at Asheville on May 1 all the property of the Craggy Lumber Co., bankrupt. This includes practically all the capital stock in a railroad company owning nine miles of standard-gauge railroad, band sawmill and necessary equipment, lath mill, planing mill and about 10,000 acres of hardwood stumpage. For further particulars address Mr. Hildebrand.

Engineer Wants Position.

A first-class engineer desires a position as master mechanic, chief engineer or superintendent of cotton mill, lumber plant, railroad or large manufacturing plant, or would take a position as traveling representative of a reliable company. He states that he has covered the South several times in the interest of a Northern casualty company, and has had several years' experience building, equipping and superintending cotton mills. Address C. F. Massey, 120 Park Ave., Raleigh, N. C.

Oklahoma Oil Development.

C. W. Deming of Tulsa, Oklahoma, senior member of the C. W. Deming and D. C. Acosta interests in the Oklahoma oil fields, has gone to England to secure capital to continue developments of holdings in the Copan, Delaware, Bird Creek, Tancha and Glenn Pool oil fields. The company in which he is interested is said to own nearly $1,500,000 worth of leases and to control leases to the value of $5,000,000 in these fields. The Deming-Acosta Company has developed several producing oil wells of large capacity, and expects to greatly increase its production of oil.

Wants Factories and Railroads.

A half million dollars bonus money in cash, city property, farm lands, factory sites and railroad-terminal grounds will be given by the people of Ardmore, Okla, for factories and new railroads. Ardmore is a progressive town of 11,000 inhabitants and has many natural advantages. These include natural gas, oil fields, glass sand, an abundance of water, asphalt mines, shales, timber, cement rock, zinc, lead and one of the most extensive water-powers in the Southwest, which, it is said, will soon be developed. For detailed information regarding the city and its advantages for profitable investment, prices on farms and city property, etc., address W. P. Poland, Ardmore, Okla.

York Manufacturing Co. Sales.

Many large and important sales have been made recently by the York (Pa.) Manufacturing Co., including the following: 2 and 6-ton high-pressure sides to Standard Waygood, Ltd., Sydney, New South Wales; 20-ton refrigerating machine to Cushing (Okla.) Ice Co.; 45-ton refrigerating machine and high-pressure side to Virginia (Minn.) Brewing Co.; 20-ton ice-making plant to Center (Tex.) Ice, Light & Power Co.; 250-ton tandem compound refrigerating machine and remodeling present equipment for Bartholomay Brewing Co. Rochester, N. Y.; 45-ton compression side, 10-ton freezing sys-

tem and 25-ton distilling system to Clarksville (Tex.) Light Co.; 20-ton ice plant to Stokes & Atkins, Palatka, Fla.; 40-ton compression side, 10-ton freezing system and refrigerating plant to John Bouchard & Sons, Nashville, Tenn., for Union Ice Cream Co., Nashville; 90-ton compression side and 25-ton freezing system to Foltz Manufacturing Co., Humboldt, Tenn.; 40-ton refrigerating machine to William Schluderberg & Son, Baltimore; 20-ton compression side, 5-ton freezing system and refrigerating plant to Jefferson Holt Ice Co., Federalsburg, Md.; 20-ton ice plant to C. H. Smith, Sanford, N. C.; 75-ton atmospheric ammonia condenser to Mississippi Company, Canton, Miss.; 60-ton atmospheric ammonia condenser to East Tennessee Brewing Co., Knoxville; pair of 16x27-inch vertical single-acting ammonia compressors to Charles F. Rantz, New Orleans, and 14,000 feet of 2-inch galvanized direct-expansion piping to Anheuser-Busch Brewing Association, St. Louis.

TRADE LITERATURE.

The Brill Magazine.

The Brill Magazine for January has been issued by the J. G. Brill Company, Philadelphia. This publication contains a portrait and sketch of Arthur W. Brady, president of Indiana Union Traction Co. and of the American Street Railway Association, together with interesting illustrations and descriptive data regarding Brill cars for various services.

Sturtevant Fuel Economizers.

The real importance of careful and intelligent analysis of the waste gases and study of the lost heat in smokestacks is beginning to attract deserved attention. The B. F. Sturtevant Company, Hyde Park, Mass., has issued bulletin No. 187 devoted to this subject, illustrating and describing Sturtevant fuel economizers. The use of these economizers eliminates the necessity of chimneys, as the heat from flue gases is transmitted to the water of the economizer, reducing temperature of flue gases as they leave the boiler to about 200 degrees Fah. and increasing the temperature of water by about 85 degrees Fah. on its way to the boiler. The necessary draft with this system is obtained by means of fan blowers, the use of which results in a more complete combustion of the gases as measured by analysis for CO_2. The title of this bulletin is "Economical Fireroom Methods," and it was compiled by F. R. Low. It includes records of the use of the Sturtevant economizers from G. H. Diman, consulting engineer of the Wood Worsted Mills, Lawrence, Mass., where a large installation of these appliances has been in use for some time. The results show a distinct saving in fuel expenditure and all-round efficiency.

A Practical Short-Hand Typewriter.

The Universal Stenotype Co. of Dallas, Tex., has issued a prospectus illustrating and describing "The Stenotype," which is now being demonstrated by the company at its Dallas office. This machine is designed to eliminate the laborious part of stenography by a system of ordinary letters used on keyboard similar to typewriter, and the system is said to be easily learned within a week or 10 days by any stenographer. By means of the stenotype machine dictation can be easily taken, and a continuous roll keeps the record until detached and transmitted by the ordinary typewriting machine to the finished letter, so that the stenotype does for shorthand what the typewriter has done for longhand writing. It is claimed that when the stenotype operator strikes the keys only half as fast as the average typewriter operator over 160 words per minute are being produced, or double the speed of the average stenographer. The stenotype prints in plain letters instead of irregular shorthand characters. One person can transcribe on typewriter while another is taking dictation on stenotype, thus having mail ready for signature almost as soon as dictation is finished. The stenotype is fully covered by patent rights.

Bird Neponset Products.

For the purpose of bringing to the attention of architects, builders and others the importance of securing for every building the roofing that will be of permanent protection against weather and water, F. W. Bird & Son, whose general offices and principal plant are located at East Walpole, Mass., are distributing a booklet entitled "Bird Neponset Products." This publication illustrates and describes most of the Bird company's products for building purposes and contains a comprehensive reference to the methods of their manufacture and to the experience the company has gained in more than 100 years of service. It also refers to the necessity of obtaining waterproof building papers which will permanently insulate walls against dampness, drafts and cold, and presents the names of prominent users of the company's products. Whether it is desired to learn about some particular product or to know just what product is best suited for particular buildings, the index of the booklet will indicate the page on which each product is described and the page also on which each type of building is treated.

De Laval Steam Turbines.

The De Laval Steam Turbine Co. of Trenton, N. J., has published a 120-page book containing 96 illustrations, sectional drawings and diagrams of De Laval single-stage turbines, with and without gears. In order to explain the relative advantages of the several types of turbines (multipressure and multivelocity stage types and re-entrant), the book considers the various questions connected with available energy in the steam between different pressures and temperatures, spouting velocities, effects of pressure and vacuums, steam friction, forms of nozzles and buckets, strength of wheels, discs and drums, vibration of rigid and flexible shafts, proper speeds for driven machines, such as direct and alternating current generators, centrifugal blowers and pumps, advantages of rope and belt drives. By using gears the De Laval single-stage turbine is adaptable for service of all kinds. It can be directly connected to the driven machine without modifying the speed and characteristics of the latter, while at the same time the turbine wheel itself can run at a velocity dictated by considerations of steam economy. It is claimed that this turbine is more efficient than most compound engines, particularly when all-around efficiency of various loads and after long terms of service is considered, for inasmuch as the steam consumption of the reciprocating engine increases considerably at loads below or above the nominal load, the De Laval steam turbine has a practically flat load curve, the steam consumption per horse-power at loads 75 per cent. and 125 per cent. of nominal being very little more than at 100 per cent. It is further stated that the De Laval turbine will retain its primal efficiency indefinitely. The construction of the De Laval turbine is fully described and illustrated, and the construction of the gears and their life and efficiency are fully discussed. De Laval turbine bearings are interchangeable, so that they may be readily renewed. The buckets are also easily replaceable, although with dry steam their efficient life is almost unlimited. These buckets are drop forgings, the glossy surface being retained. Impulse turbines of the single and two stage types are also illustrated, as well as numerous applications of turbines with and without gears applied to driving generators, pumps, blowers, etc. Centrifugal boiler-feed pumps driven by turbines without gears are described as specially suited because of their simplicity and reliability to the requirements of steam-power plants. Among the illustrations are two of the De Laval multistage turbines, which are adapted for large sizes and of which a number are now in service.

OBITUARY.

Death of John Richardson.

John Richardson, for many years connected with the Savage Mountain Fire Brick Co. of Frostburg, Md., and the Clearfield Fire Brick Co., Clearfield, Pa., died at his home, Sewickeley, Pa., on February 3 of pneumonia. Mr. Richardson was past 80 years of age and had been popular with the trade for the last two generations.

Death of Louis Ross Alberger.

Louis Ross Alberger, founder and president of the Alberger Condenser Co. and the Alberger Pump Co., 140 Cedar St., New York, died on January 31. Mr. Alberger was born at Buffalo on April 10, 1864. After a three-year course at Yale he became associated with his father, the late J. L. Alberger, who developed the salt vacuum process. In 1887 he moved to New York and was associated for a number of years with Henry R. Worthington, having charge of the condenser department of the Worthington plant. In 1901 Mr. Alberger organized the Alberger Condenser Co., and subsequently the Alberger Pump Co., and was president of both companies at the time of his death.

An Anniversary Edition.

An anniversary edition of finance and real estate has been issued by the *Virginian* of Richmond, Va., presenting in detail interesting figures showing the industrial growth of Richmond from 1900 to 1910. According to the statistics, bank deposits increased from $9,782,000 to $41,284,000; total bank assets from $16,888,000 to $51,606,000; bank clearings from $165,901,087 to $374,794,000; real estate values from $66,720,949 to $137,516,429; manufactured products from $41,366,923 to $90,281,408; jobbing sales from $35,377,295 to $71,490,718; building operations from $958,947 to $4,012,822; miles of street railway from 75 to 105; passengers of street railways from 18,272,880 to 40,649,989, and population from 68,050 to 127,628.

DEVELOP 200,000 HORSE-POWER.

Georgia Power Co.'s Big Plans for Electricity in Atlanta District.

The MANUFACTURERS RECORD has a telegram from C. Elmer Smith of York, Pa., confirming details of the plans of the Georgia Power Co., of which Mr. Smith is president, for developing water-powers and transmitting electricity in the Atlanta district, these plans having been previously outlined briefly by the MANUFACTURERS RECORD. His company will obtain about 200,000 horse-power, and has completed arrangements for the first development, which will be at Tallulah Falls, near Tallulah, Ga. Here the company will construct a dam 100 feet high and a tunnel about one and one-quarter miles long to convey the water to the site, where it will build a power-house to develop 100,000 horse-power. This will be transmitted by electricity at 110,000 volts to a large distributing station to be erected at Atlanta, about 90 miles distant, and the Tallulah electrical machinery will include six generators capable of developing 15,000 horse-power each. Contracts are being awarded through the Northern Contracting Co. of Detroit and New York, and all have been practically closed, so that construction will begin promptly. C. O. Lenz of New York is the company's engineer in charge, and he is being assisted by C. E. Parsons of New York. The principal officers of the Georgia Power Co. besides Mr. Smith are A. W. McLimont, vice-president, of Jackson, Mich., and Kirke Lathrope, secretary-treasurer, of Detroit. The company is capitalized at $20,000,000, half of which is common stock and half is bonds, and its securities have all been subscribed by Canadian and English capitalists through a prominent Canadian trust company.

The Georgia Power Co. had previously acquired the North Georgia Electric Co. of Gainesville, now furnishing 3000 horse-power to Atlanta, with additional power available; the Etowah Power Co. of Canton, with 30,000 horse-power available; the water-power at Franklin, capable of developing more than 30,000 horse-power, and other properties on the upper Chattahoochee River. Utilizing all these powers and the Tallulah Falls development will give the company the 200,000 horse-power for furnishing electricity to Atlanta and its surrounding territory. The Tallulah plant is expected to be completed during the summer of 1912.

It will include the construction of a station for transmitting electricity over 200 miles of wires which will be hung on steel towers, also to be erected. The electricity for the Atlanta distributing station at 110,000 volts will be transmitted by double wires hung on steel towers. Engineers are now actively engaged at Tallulah Falls in preparing to begin the construction of dam, tunnel, power-house, etc. The additional water-power developments to provide the company with the 200,000 horse-power will be undertaken in the future in accordance with the demand for electricity in the Atlanta territory.

Atlanta has for years been one of the leading centers for manufacturing in the South, and the electrical transmission of the Georgia Power Co. will doubtless aid the city and its surrounding territory to become one of the leading manufacturing districts of the entire country. Referring to the various water-powers which his company intends to develop, Mr. Smith is quoted as saying that "it is the best situation of its kind I have seen, and outside of the Niagara Falls there is nothing like it in point of power development east of the Rocky Mountains."

It would be difficult to overestimate the importance to Atlanta of these developments, as the 200,000 horse-power will be sufficient to furnish about eighteen times as much electricity as is now consumed in Atlanta for city lighting, driving street-car system, operating the elevators and supplying numerous manufacturing plants that have adopted electricity for power. About 12,000 horse-power in Atlanta is being furnished by the Atlanta Water & Electric Power Co., which controls the Bull Sluice plant, in which C. Elmer Smith is largely interested. The possibilities of developing the Chattahoochee River water-powers were first investigated by Mr. Smith nearly 10 years ago, and in 1894 he became actively interested, the subsequent result being that plans were finally formulated for the 200,000 horse-power developments above detailed. Mr. Smith is also well known as president and manager of the S. Morgan Smith Company of York, manufacturer of water-wheels and power-transmitting machinery.

FINANCIAL NEWS

The MANUFACTURERS RECORD invites information about Southern financial matters, items of news about new institutions, dividends declared, securities to be issued, openings for new banks, and general discussions of financial subjects bearing upon Southern matters.

Review of the Baltimore Market.

Office MANUFACTURERS RECORD,
Baltimore, Md., February 8.

The Baltimore stock market was quite active during the past week. In the trading United Railways common sold from 17⅝ to 17⅞; do. trust certificates, 18 to 17⅝; do. incomes, 63¼ to 62⅜; do. funding 5s, 85⅝ to 86; do. do. scrip, 85¾ to 86; United 4s, 84½ to 84¾; Consolidated Gas, Electric Light & Power common, 73 to 76; do. preferred, 93 to 95; do. 4½s, 85¾ to 86¼; do. notes, 99¼ to 99½; Consolidated Gas 5s, 100; do. 4½s, 94½ to 96½; Seaboard Air Line common, 22½; do. preferred, 36½ to 36¾; Seaboard Company common, 23¾ to 24⅜; do. first preferred, 84½ to 84; do. second preferred, 48½ to 49; Seaboard 4s, stamped, 86⅞ to 87⅛; do. three-year 5s, 100⅛; do. 10-year 5s, 100⅛; do. adjustment 5s, 75½ to 76⅜, with last sale at 76⅛; Consolidated Cotton Duck preferred, 20⅛ to 20; Mt. Vernon-Woodberry Cotton Duck 5s, 74¼; G.-B.-S. Brewing common, 1; do. incomes, 6 to 7½; G.-B.-S. Brewing 4s, 45 to 48, with last sale at 46½.

Bank stocks sold as follows: First National, 140; Farmers and Merchants', 50 to 49¼; Mechanics', 28½; Merchants', 182; Union, 133 to 130; Bank of Commerce, 31; Citizens', 42.

Maryland Trust sold at 80; Mercantile Trust, 144; Union, 70; American Bonding, 78½ to 78; Baltimore Trust, 164 to 165; Continental Trust, 207½; Fidelity Trust, 216; United States Fidelity, 159 to 161.

Other securities were traded in thus: Atlantic Coast Line, 122¾; City & Suburban (Baltimore) 5s, 106; Potomac Valley 5s, 110; Baltimore Traction 5s, 107¼; West Virginia Central 6s, 100⅝; Georgia Southern & Florida 5s, 81; Georgia & Florida common, 9½ to 9¾; do. preferred, 18; do. 5s, 81 to 81½; Northern Pacific common, 128⅝; United States Steel, 81; Western Maryland 4s, 86⅞; Baltimore City 4s, 1960, 101¾; do. 3½s, 1980, 89½; Fairmont & Clarksburg Traction 5s, 97 to 97⅝; Knoxville Traction 5s, 104 to 104½; Macon, Dublin & Savannah 5s, 98⅜ to 98⅝; Northern Central Railway stock, 125 to 125½; Piedmont & Cumber-

land 5s, 100; Anacostia & Potomac 5s, 100½; Consolidation Coal receipts, 25 per cent. paid, 27¾; do. full paid, 102½; Consolidation Coal stock, 102½ to 102¼; Norfolk Railway & Light 5s, 98¾; Jamison Coal & Coke, George's Creek 5s, 91¼ to 91½; Alabama Consolidated Coal & Iron preferred, 55; do. common, 30; do. 5s, 85¼ to 86; Norfolk & Portsmouth Traction 5s, 82 to 82½; Baltimore Electrict 5s, stamped, 89 to 89½; Maryland & Pennsylvania Railroad common, 22; Fairmont & Clarksburg Traction preferred, 75; Memphis Street Railway 5s, 97; Carolina Power & Light 5s, 92½; Detroit United 4½s, 80¾ to 80¾; Maryland Electric 5s, 97½ to 97¼; Baltimore, Sparrows Point & Chesapeake 4½s, 96; Baltimore Brick 5s, 80½; Baltimore City 3½s, 1927, 86½ to 87¼; Lake Roland Elevated 5s, 109¾; Fairmont Coal 5s, 97 to 97¼; Atlantic Coast Line of Connecticut, 230; Baltimore City 3½s, 1930, 93½; Consolidation Coal refunding 4½s, 93½; Florida Southern 4s, 92½; Virginia Railway & Power common, 30 to 31; Atlantic Coast Line of Connecticut 5s, certificates, 104; Baltimore City Passenger 5s, 100⅛; Atlanta Consolidated Street Railway 5s, 105; Detroit, Rochester, Romeo & Lake Orion 1st 5s, 1920, 98½; Georgia & Alabama Consolidated 5s, 104⅞; Indianapolis Northern Traction 5s, 1932, 84⅞; Atlantic Coast Line convertible debenture 4s, 97¾; Charleston & Western Carolina 5s, 105¾; Houston Oil preferred, 45; Cleveland Electric 5s, 1913, 99⅛; Charleston Consolidated Electric 5s, 96; Grand Rapids Railway 5s, 1916, 99¾; International Steam Pump 1st S. F. 5s, 93¼; Kansas Electric Railway & Light refunding 5s, 1913, 96½.

SECURITIES AT BALTIMORE.

Last Quotations for the Week Ended February 8, 1911.

Railroad Stocks.	Par.	Bid.	Asked.
Atlantic Coast Line	100	...	124
Atlantic Coast of Conn.	100	229	235
Charleston Consolidated	50	33	...
Fairmont & Clarks. Trac. Pfd.	100	74½	75½
Georgia Sou. & Fla. 2d Pfd.	100	...	74½
Norfolk Railway & Light	25	22	22½
Seaboard Co. Common	100	23¾	24¼
Seaboard Co. 1st Pfd.	100	84	...
Seaboard Co. 2d Pfd.	100	48½	49
United Rys. & Elec. Co.	50	17⅝	17½
Bank Stocks.			
Bank of Baltimore	100	150	150½
Bank of Commerce	15	30	31
Citizens'	10	41½	43
Commercial & Farmers'	100	105	120
Drovers & Mechanics'	100	224	225
Exchange	100	160½	...
Farmers & Merchants'	40	49	51
First National	100	140	145
German-American	100	165	...
Howard	10	13½	...
Marine	30	41½	...
Maryland	20	24½	25½
Merchants'	100	181½	...
Mechanics'	10	28¼	29
Union	100	130	133
Western	20	37¼	...
Trust, Fidelity and Casualty Stocks.			
Baltimore Trust	100	164	165
Continental Trust	100	205	207
Fidelity Trust	100	216	220
Maryland Trust	100	...	80
Maryland Trust Pfd.	100	103	...
Maryland Casualty	25	97	97¾
Mercantile Trust & Deposit	50	143	144½
Union Trust	50	69½	70¼
U. S. Fidelity & Guaranty	100	160½	165
Miscellaneous Stocks.			
Ala. Con. Coal & Iron	100	29	...
Ala. Con. Coal & Iron Pfd.	100	58	60
Baltimore Brick	100	2¼	3
Con. Cotton Duck Pfd.	50	20	22
Con. Gas, Elec. Lt. & P. Com.	100	76	77½
Con. Gas, Elec. Lt. & P. Pfd.	100	95	96½
Consolidation Coal	100	101½	102½
G.-B.-S. Brewing Co.	100	1⅛	2½
Mer. & Miners' Trans. Co.	100	77	81
Railroad Bonds.			
Atlantic Coast 1st 4s		93¾	94¼
Atlantic Coast Conv. Deben. 4s		97⅝	98⅛
At. Coast (Conn.) 4s, Ctfs., 5-20s.		92	92¼
Atlantic Coast (Conn.) 5s, Ctfs.		104	...
Balto. & Annapolis S. L. 5s		70½	85
Balto. & Harrisburg 5s		105	...
Balto. & Harrisburg Ext. 5s		104	...
Carolina Central 4s		92½	...
Charleston & West Car. 5s		105¾	106
Coal & Coke Railway 5s		91	...
Coal & Iron Railway 5s		101½	102½
Col. & Green. 1st 6s		106	106¾
Florida Southern 4s		92	...
Georgia & Alabama 5s		104⅞	105
Georgia & Florida 5s		81	81½
Georgia, Car. & North. 1st 5s		105¾	106
Georgia Pacific 1st 6s		113¾	114
Macon, Dublin & Savannah 5s		98½	98⅝
Piedmont & Cumberland 1st 5s		100	...
Potomac Valley 1st 5s		110	112
Raleigh & Gaston 5s		109	111
Richmond & Petersburg 6s		106	...
Savannah, Fla. & West. 6s		124¾	125¼
Seaboard Air Line 4s		87	87¼
Seaboard 4s, Stamped		87	87⅛
Seaboard Adjustment 5s		76⅛	76¾
Seaboard 10-year 5s		100⅛	100¾
Seaboard 3-year 5s		100⅛	...
Seaboard & Roanoke 5s		106	...
Seaboard & Roanoke 6s		100	...
South Bound 5s		105½	...
Virginia Midland 2d 6s		100	100½
Virginia Midland 5th 5s		105	...
Virginia Midland G. M. 5s		107	108½
Washington-Vandemere 4½s		93	...
Western Maryland 4s		...	86¾
Western N. C. Con. 6s		...	105⅛
West Virginia Central 1st 6s		100⅝	100¾
Wilmington & Weldon 5s		110	...

Street Railway Bonds.	Bid.	Asked.
Anacostia & Potomac 5s, Gtd.	102¾	...
Atlanta Con. Street Railway 5s	104½	105
Augusta Railway & Electric 5s	101½	102¼
Baltimore City Passenger 5s	100	100⅛
Baltimore City Passenger 4½s	99½	...
Baltimore, Sp. Pt. & C. 4½s	95½	96
Baltimore Traction 1st 5s	107	...
Baltimore Traction (N. B.) 5s	109½	...
Central Railway (Balto.) Con. 5s	107¾	...
Central Railway (Balto.) Ext. 5s	107¾	...
Charleston City Railway 5s	102¼	104¾
Charleston Con. Electric 5s	95½	97
City & Suburban 5s (Balto.)	105½	106¼
City & Suburban 5s (Wash.)	102	104
Fairmont & Clarksburg Trac. 5s	97	97¼
Knoxville Traction 5s	104	104½
Lake Roland Elevated 5s	109¼	109½
Macon Railway & Light 5s	97	100
Maryland Electric Railways 5s	97¼	97½
Memphis Street Railway 5s	96¾	97¼
Metropolitan 5s (Wash.)	106½	107¾
Norfolk & Portsmouth Trac. 5s	82½	82¾
Norfolk Railway & Light 5s	98½	...
United Railways 1st 4s	84⅝	84¾
United Railways Income 4s	62½	62⅞
United Railways Funding 5s	85¾	86
Miscellaneous Bonds.		
Ala. Con. Coal & Iron 5s	85	85½
Baltimore Brick 5s	80	80½
Baltimore Electric 5s, Stp.	89¼	90¼
Consolidated Gas 5s	108¾	109½
Consolidated Gas 4½s	96¼	96½
Con. Gas, Elec. Lt. & P. 4½s	86⅛	86¼
Con. Gas, Elec. Lt. & P. Notes	99¼	99½
Consolidation Coal Refdg. 4½s	93¼	94
Fairmont Coal 1st 5s	97⅛	97¼
G.-B.-S. Brewing 1st 4s	46	47
G.-B.-S. Brewing Inc. 5s	7½	8
Mt. Vernon-Woodb'y Cot. Duck 5s	74⅛	74¼
United Elec. Lt. & P. 4½s	92⅝	93

SOUTHERN COTTON-MILL STOCKS.

Quotations Furnished by Hugh MacRae & Co., Wilmington, N. C., for Week Ending February 6.

	Bid.	Asked
Abbeville Cotton Mills (S. C.)	72½	...
Aiken Mfg. Co. (S. C.)	...	90
American Spinning Co. (S. C.)	160	165
Anderson Cotton Mills (S. C.)	...	50
Anderson Cot. Mills (S. C.) Pfd.	...	90
Arkwright Mills (S. C.)	100	103
Augusta Factory (Ga.)	50	53
Avondale Mills (Ala.)	116	125
Belton Mills (S. C.)	135	145
Bibb Mfg. Co. (Ga.)	...	114
Brandon Mills (S. C.)	...	100
Cabarrus Cotton Mills (N. C.)	125	140
Chadwick-Hoskins Mfg. Co. (N.C.)	100	...
Chadwick-Hoskins Mfg. Co. (N. C.) Pfd.	...	102
Chiquola Mfg. Co. (S. C.)	170	175
Clifton Mfg. Co. (S. C.)	...	90
Clifton Mfg. Co. (S. C.) Pfd.	...	100
Clinton Cotton Mills (S. C.)	...	130
Columbus Mfg. Co. (Ga.)	82	85
Courtenay Mfg. Co. (S. C.)	90	100
Dallas Mfg. Co. (Ala.)	98	110
Darlington Mfg. Co. (S. C.)	...	85
Drayton Mfg. Co. (Ala.)	...	100
Eagle & Phenix Mills (Ga.)	110	...
Easley Cotton Mills (S. C.)	...	170
Enoree Mfg. Co. (S. C.)	...	54
Enoree Mfg. Co. (S. C.) Pfd.	...	100
Enterprise Mfg. Co. (Ga.)	80	85
Exposition Cotton Mills (Ga.)	195	200
Gaffney Mfg. Co. (S. C.)	71	74
Gainesville Cotton Mills (S. C.)	70	...
Granby Cot. Mills (S. C.) 1st Pfd.	...	35
Graniteville Mfg. Co. (S. C.)	...	150
Greenwood Cotton Mills (S. C.)	58	61
Grendel Mills (S. C.)	100	110
Henrietta Mills (N. C.)	160	175
King, John P. (Ga.)	...	85
Lancaster Cotton Mills (S. C.)	130	...
Lancaster Cotton Mills (Pfd.)	97	100
Langley Mfg. Co. (S. C.)	...	120
Laurens Cotton Mills (S. C.)	130	136
Limestone Mills (S. C.)	150	170
Lockhart Mills (S. C.)	...	70
Lockhart Mills (S. C.) Pfd.	...	100
Loray Mills (N. C.) Pfd.	95	98
Marlboro Cotton Mills (S. C.)	...	72
Mayo Mills (N. C.)	120	...
Mills Mfg. Co. (S. C.)	...	100
Mills Mfg. Co. (S. C.) Pfd.	...	109
Monaghan Mills (S. C.)	100	105
Monarch Cotton Mills (S. C.)	102	110
Newberry Cotton Mills (S. C.)	125	140
Norris Cotton Mills (S. C.)	125	130
Olympia Cot. Mills (S. C.) 1st Pfd.	...	90
Orangeburg Mfg. Co. (S.C.) 1st Pfd.	...	80
Orr Cotton Mills (S. C.)	100	105
Pacolet Mfg. Co. (S. C.)	...	95
Pacolet Mfg. Co. (S. C.) Pfd.	...	99
Pelzer Mfg. Co. (S. C.)	150	160
Piedmont Mfg. Co. (S. C.)	...	171
Poe Mfg. Co. (S. C.)	...	125
Richland Cotton Mills, 1st Pfd.	...	45
Raleigh Cotton Mills (N. C.)	100	105
Roanoke Mills (N. C.)	153	200
Saxon Mills (S. C.)	127	...
Sibley Mfg. Co. (Ga.)	65	70
Spartan Mills (S. C.)	...	140
Springstein Mills (S. C.)	...	100
Tucapau Mills (S. C.)	300	...
Trion Mfg. Co. (Ga.)	...	127½
Union-Buffalo Mills 1st Pfd.	...	61
Victor Mfg. Co. (S. C.)	110	115½
Warren Mfg. Co. (S. C.)	95	100
Warren Mfg. Co. (S. C.) Pfd.	100	105
Washington Mills (Va.)	28	...
Washington Mills (Va.) Pfd.	106	110
Whitney Mfg. Co. (S. C.)	120	125
Williamston Mills (S. C.)	120	126
Wiscassett Mills (N. C.)	120	135
Woodruff Cotton Mills (S. C.)	110	120
Woodside Cotton Mills (S. C.)	...	98
Woodside Cot. Mills (S. C.) Pfd.	...	98½

Quotations Furnished by William S. Glenn, Broker, Spartanburg, S. C., for Week Ending February 6.

	Bid.	Asked.
Abbeville Cotton Mills (S. C.)	...	75
Aiken Mfg. Co. (S. C.)	...	90
American Spinning Co. (S. C.)	160	...
Anderson Cotton Mills (S. C.)	...	48
Anderson Cot. Mills (S. C.) Pfd.	...	100
Arcadia Mills (S. C.)	100	...
Arkwright Cotton Mills (S. C.)	99	101
Augusta Factory (Ga.)	60	65
Avondale Mills (Ala.)	116	...
Belton Mills (S. C.)	132	140
Brandon Mills (S. C.)	99	103
Brogon Mills (S. C.)	...	90
Cannon Mfg. Co. (N. C.)	135	...
Cabarrus Cotton Mills (N. C.)	130	135
Chadwick Mfg. Co. (N. C.) Pfd.	100	...
Chiquola Mfg. Co. (S. C.)	...	180
Clifton Mfg. Co. (S. C.)	...	85
Clinton Cotton Mills (S. C.)	...	120
Columbus Mfg. Co. (Ga.)	93	98
Courtnay Mfg. Co. (S. C.)	...	100
Dallas Mfg. Co. (Ala.)	99	...
Darlington Mfg. Co. (S. C.)	...	80
D. E. Converse Co. (S. C.)	...	100
Drayton Mills (S. C.)	95	105
Eagle & Phenix Mills (Ga.)	117	...
Easley Cotton Mills (S. C.)	165	175
Enoree Mfg. Co. (S. C.)	50	55
Enoree Mfg. Co. (S. C.) Pfd.	96	100
Enterprise Mfg. Co. (Ga.)	80	85
Exposition Cotton Mills (Ga.)	...	200
Gaffney Mfg. Co. (S. C.)	70	75
Gainesville Cotton Mills (Ga.)	72	80
Glenwood Cotton Mills (S. C.)	...	150
Gluck Mills (S. C.)	102	106
Granby Cot. Mills (S. C.) 1st Pfd.	35	45
Graniteville Mfg. Co. (S. C.)	155	165
Greenwood Cotton Mills (S. C.)	57	60
Grendel Mills (S. C.)	103	108
Hartsville Cotton Mill (S. C.)	190	...
Henrietta Mills (N. C.)	160	175
Inman Mills (S. C.)	100	108
King Mfg. Co., J. P. (Ga.)	90	93
Lancaster Cotton Mills (S. C.)	130	...
Lancaster Cot. Mills (S. C.) Pfd.	97	100
Langley Mfg. Co. (S. C.)	120	127
Laurens Mills (S. C.)	127	135
Limestone Mills (S. C.)	155	160
Lockhart Mills (S. C.)	...	68
Lockhart Mills (S. C.) Pfd.	99	100
Loray Cotton Mills (N. C.) Pfd.	95	97½
Marlboro Cotton Mills (S. C.)	75	80
Mills Mfg. Co. (S. C.)	...	102
Mollohon Mfg. Co. (S. C.)	106	110
Monaghan Mills (S. C.)	104	109
Monarch Cotton Mills (S. C.)	107	...
Newberry Cotton Mills (S. C.)	125	130
Ninety-Six Cotton Mills (S. C.)	140	150
Norris Cotton Mills (S. C.)	121	130
Olympia Cotton Mills (S. C.)	90	...
Orr Cotton Mills (S. C.)	...	102
Pacolet Mfg. Co. (S. C.)	...	90
Pacolet Mfg. Co. (S. C.) Pfd.	99	102
Pelzer Mfg. Co. (S. C.)	...	169
Piedmont Mfg. Co. (S. C.)	175	177
Poe Mfg. Co., F. W. (S. C.)	110	125
Saxon Mills (S. C.)	130	...
Sibley Mfg. Co. (Ga.)	71	78
Spartan Mills (S. C.)	125	132
Trion Mfg. Co. (Ga.)	...	130
Tucapau Mills (S. C.)	310	350
Union-Buffalo (S. C.) 1st Pfd.	74	80
Union-Buffalo (S. C.) 2d Pfd.	...	16
Victor Mfg. Co. (S. C.)	115	120
Warren Mfg. Co. (S. C.)	107	...
Warren Mfg. Co. (S. C.) Pfd.	106	110
Washington Mills (Va.)	28	...
Washington Mills (Va.) Pfd.	106	110
Whitney Mfg. Co. (S. C.)	110	...
Wiscassett Mills (N. C.)	...	125
Woodruff Cotton Mills (S. C.)	110	115
Woodside Cotton Mills (S. C.)	85	100
Watts Mills (S. C.)	85	90
Williamston Mills (S. C.)	120	125

Texas Company's New Bonds.

Dispatches from New York say, it is officially announced, that stockholders of the Texas Company will shortly be offered the right to subscribe for a new issue of $12,000,000 6 per cent. convertible 20-year bonds at par. The bonds will be convertible into stock at $150 per share until January 1, 1915, after which they will be redeemable at 105 and interest. A sinking fund will be established. The issue has been underwritten by Blair & Co. and Harris, Winthrop & Co. The proceeds will be used to pay off floating debt and to supply additional working capital. The Texas Company, is controlled by John W. Gates, and is engaged in the oil business. It owns about 1000 miles of pipe lines reaching Texas, Oklahoma and Louisiana oil fields, four refineries at Tulsa, Okla.; Port Arthur, Dallas and Port Neches, Tex., and also one at Bayonne, N. J., along with tank steamers, barges, etc.

The Waggoner Bank & Trust Co. and the First National Bank, both at Fort Worth, Tex., have, according to press dispatches, consolidated under the name of the First National, with a capital of more than $1,000,000 and surplus of $500,000.

FINANCIAL CORPORATIONS.

Ala., Birmingham.—The Co-operative Mortgage Co. has filed incorporation papers; capital $2000 to $10,000. Albert Lee Smith is president; W. H. Duke, vice-president; David J. Davis, secretary and treasurer; Hugo L. Black, attorney.

Ala., Clio.—The Farmers' Bank of Clio has filed incorporation articles; authorized capital $27,600, of which $16,560 is paid in; incorporators, G. E. Jones, E. W. Norton, A. N. Leal and others.

Ark., Conway.—First National Bank of Conway applied for charter; capital, $25,000. Incorporators: J. F. Jones, J. H. Stubbs, F. U. Haller, W. W. Rivers and J. W. James.

Ala., Gadsden.—Official: The Etowah Trust and Savings Bank, a new concern, is incorporated with $200,000 capital; began business February 1; J. B. Wadsworth is president; J. W. Penn, active vice-president; E. W. Whips, cashier; R. M. Wilbanks, assistant cashier.

Ala., Oxford.—The Oxford National Bank is chartered; capital $25,000; L. B. Miller, president; W. C. Gray and W. H. McKleroy, vice-presidents; Frank Leigh, cashier. It has begun business in temporary quarters.

Ala., Winfield.—The Winfield Bank & Trust Co., capital $25,000, paid in $15,000, is reported incorporated.

Ala., Warrior.—Official: The Citizens' Bank of Warrior, a new institution, is chartered; capital, $30,000, of which $15,000 is paid in; began business January 30. W. L. Sibley is president, V. S. Cullwell first vice-president, A. E. Jackson second vice-president, D. D. Burleson cashier.

Ark., Stuttgart.—The Industrial Securities Co. is reported organized with $25,000 capital. W. P. Anderson will be president and J. B. Weatherton vice-president, both of Stuttgart; Gen. W. Ewin, secretary-treasurer, Villa Grove, Ill.

Fla., Ocala.—The Ocala National Bank, says a dispatch from Washington, has been granted a charter; capital $75,000. Directors: John L. Edwards, president; Clarence Camp, vice-president; H. D. Stokes, cashier; Dr. J. E. Chace and E. L. Wartmann. Business is expected to begin about the middle of February.

Fla., Ocala.—Official: The Commercial Bank of Ocala, capital $50,000, is organized and has begun business. James C. Boozer is president; S. H. Martin, first vice-president; T. H. Johnson, second vice-president; George J. Blitch, cashier; directors, J. C. Boozer, S. H. Martin, J. R. Williams, E. L. Howell, D. W. Tompkins, R. S. Hall, George Rentz, D. E. McIver and B. C. Webb.

Ga., Benevolence.—The Bank of Benevolence, capital $25,000, has been chartered with the following stockholders: J. O. Crozier, E. G. Perryman, J. M. Kreese, H. L. Kreese, P. E. Kreese, E. M. Ward, W. S. Parham, J. B. Turner and O. H. King, all of Benevolence; Mrs. Perryman of Cuthbert, B. F. Turner of Lumpkin and John D. Walker of Sparta, Ga.

Ga., Waycross.—The Waycross Savings & Trust Co., organized with $100,000 capital, will, according to press dispatches, soon begin business with directors thus: L. J. Cooper, president; J. S. Williams, vice-president, and D. F. Arthur, secretary; J. L. Sweat, J. L. Walker, Dan Lott, George W. Deen.

Ky., Leitchfield.—The Grayson County National Bank is reported to have surrendered its charter and reorganized as the Grayson County State Bank. R. J. Bassett will be president and A. P. Stone, cashier.

La., Bordelonville.—The branch of the Central Bank & Trust Co. is reported to have begun business; capital $50,000; surplus $6000. Dr. E. Regards is president; Dr. R. G. Ducote and C. J. Bordelon, vice-presidents, and Ellis Coco, assistant cashier.

La., Plaucheville.—The Plaucheville branch of the Avoyelles Bank & Trust Co. is reported to have begun business.

La., New Orleans.—Citizens' Bank & Trust Co., which succeeds the Citizens' Bank, has organized; capital $400,000; surplus $100,000. George W. Nott is president; A. A. Lelong, Charles J. Theard and Simon Pfeifer, vice-presidents; S. A. Trufant, cashier, and H. C. Grenier, assistant cashier.

Md., Baltimore.—Hopper, Polk & Purnell, 32 South St., Baltimore, have incorporated with $3500 capital stock for insurance and real estate brokerage; incorporators, Daniel W. Hopper, W. Stewart Polk, Lyttleton B. Purnell, Wm. C. Ballard, S. R. Allnutt, Fletcher Long and D. Peale Polk.

Md., Baltimore.—The New Eastern Permanent Savings and Loan Association (a homestead and building organization) is incorporated; capital stock $312,000; incorporators, John Sause, Henry F. Matthiessen and Wm. F. Schultz.

Miss., Kilmichael.—Concerning the report that charter has been applied for to organize the Kilmichael Home Bank, one of the parties interested writes that it will probably not be organized.

Miss., Sumner.—Bank of Sumner, capital $100,000, reported incorporated by J. B. Rogers, M. P. Sturdivant, A. M. Mitchner, T. C. Buford, H. B. Flautt, David Levy, Waight Webb and John Robertson.

Miss., Vicksburg.—The Casualty Insurance Co. of the South, headquarters at Vicksburg, capital $50,000, is reported preparing for business with directors thus: E. L. Brien, president; Knight Brough, treasurer; H. B.

[For Additional Financial News, See Pages 74 and 75.]

Established 1835.

The Merchants National Bank

South and Water Sts., BALTIMORE, MD.

DOUGLAS H. THOMAS, President.
WM. INGLE, Vice-Prest. and Cashier.
J. C. WANDS, Asst Cashier.
JOHN B. H. DUNN, Asst. Cashier.

Capital, $1,500,000
Surplus and Profits - - - $900,000
Deposits, $12,000,000

Accounts of Banks, Bankers, Corporations and Individuals solicited. We invite correspondence.

THE FIRST NATIONAL BANK
OF KEY WEST, FLA.

United States Depository and Disbursing Agent.

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Surplus and Undivided Profits - $40,000

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Special attention given to collections.

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R. E. Bolling, A. Cash. Raymond B. Cox, Auditor.

The First National Bank
17 South St., Baltimore, Md.

Capital - - - - - - $1,000,000
Surplus and Net Profits - - 560,000
Resources - - - - - 9,000,000

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Hopkins Place, German and Liberty Sts.
Capital, $1,000,000
July 15, 1908, Surplus and Profits, $671,631.60

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Members New York Stock Exchange,
30 Broad Street NEW YORK
39 Pearl Street, Hartford.
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CAPITAL AND SURPLUS - - - - $3,500,000

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SAVANNAH, GA.
Long Distance Phone.
References—Any Bank in Savannah.

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Becomes Surety on bonds of every description.
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HARLEY NICODEMUS, Sec'y and Treas. EDWIN WARFIELD, President.

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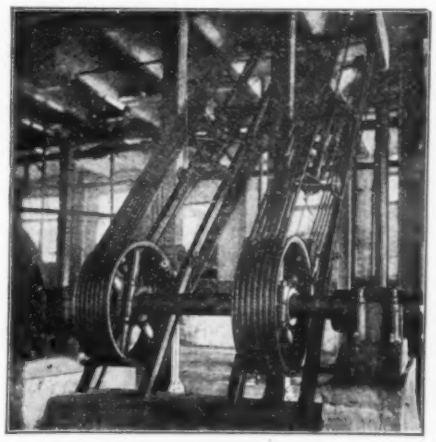

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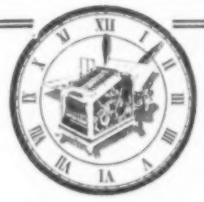

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Mo., Guilford.—The Citizens' Bank of Guilford, capital $15,000, is incorporated; directors, John McKee, Alex. H. Wilson, Frank L. Clayton, Joe V. Pugh and Jos. B. Hocker.

Mo., Knob Noster.—Official: The People's Bank of Knob Noster incorporated; capital, $20,000. Incorporators: R. M. Jenks and Frank Jenks. Business is to begin March 1.

Mo., Marshfield.—The First National Bank of Marshfield, Mo., capital $25,000, has applied for charter. The organizers are N. M. Bartley of Marshfield, Mo.; J. L. Jackson, C. T. Childresh, A. S. Orem and J. A. Humphreys.

Mo., Tipton.—Tipton Building and Loan Association reported chartered; capital $100,000; incorporators, Harry E. Moore, W. F. Quigley, E. Everett Pizer and others.

Mo., St. Louis.—A new trust company, with $100,000 capital and $25,000 surplus, is reported organized by William S. Drozda and others. Incorporation articles are being prepared and charter is to be secured. Business is expected to begin about March 10 in the new Drozda Bldg. being erected at the corner of Chouteau and Vandeventer Aves.

N. C., Concord.—Concord Insurance & Real Estate Co. chartered; capital, $100,000; paid in, $5000. A. Jones Yorke and others of Concord are incorporators.

N. C., Jamesville.—The Bank of Jamesville is reported chartered; authorized capital $25,000. Stockholders: J. L. Davenport, W. H. Martin, T. W. Mizell and others.

N. C., Monroe.—M. K. Lee writes that he expects to organize a bank and trust company about February 15 to be located at Monroe. A press report gives capital at $50,000.

N. C., Wilkesboro.—The Wilkes Realty & Insurance Co. of Wilkesboro is reported chartered with an authorized capital from $15,000 to $25,000. William G. Hall, Charles M. Sheets and C. H. Ferguson are interested.

N. C., Winston-Salem.—A letter to the Manufacturers Record confirms the report that charter has been obtained for the Winston Loan & Trust Co., but says that no definite steps have been taken for organization. Judge E. B. Jones of Winston-Salem is in charge.

Okla., Dustin.—Oklahoma State Bank of Dustin chartered; capital $15,000; directors, L. T. Sheets, W. N. Fayant, J. R. Buckler, W. Va. Brown, L. La M. Pyle, J. F. Parker and Mrs. E. A. Myers.

Okla., Fairview.—The Citizens' State Bank of Fairview is reported chartered.

Okla., Haworth.—A press report says that a new bank has been organized at Haworth with $10,000 capital and $1000 surplus.

Okla., Muskogee.—The American Title Co. is reported organized with $50,000 capital by M. B. Louis, J. N. Wilkinson, G. B. L. Thompson and L. G. Disney, all of Muskogee, and A. E. Perry of Coalgate.

Okla., Oklahoma City.—Union Investment Co. of Oklahoma City chartered; capital, $15,000. The incorporators are A. Goodholm, John Wetell, L. J. Myser, D. M. Wolf and R. F. Schafer.

Okla., Snyder.—The First National Bank of Snyder, capital $25,000, has been approved. Organizers: G. J. Helena, Snyder; H. E. Morris, J. H. Capps, S. D. Bailey and P. W. Helena.

S. C., Andrews.—The Bank of Andrews, capital $15,000, has been granted a commission; incorporators, W. H. Andrews, H. K. Ward and Olin Sawyer.

S. C., Charleston.—Official: The Southern Home Insurance Co. of South Carolina chartered; home office, Charleston; capital, $150,000; surplus, $37,500. Business is expected to begin about February 15 with directors thus: Oscar E. Johnson, president; E. H. Pringle, vice-president; W. H. Cogswell, J. T. Leonard, Leroy Springs, A. W. Litschgi, W. J. Murray, E. K. Marshall, J. Brittlebank, D. R. Coker, H. Pearlstine, A. T. Smythe, Jr., J. I. Westervett and B. C. Matthews. J. W. McDowell is secretary and treasurer.

S. C., Charleston.—The Southern Home Fire Insurance Co., capital $100,000, is chartered and organized. Oscar E. Johnson is president; E. H. Pringle, vice-president; J. W. McDowell, secretary and treasurer. The directors include Leroy Springs of Lancaster, J. I. Westervelt of Greenville, Dr. W. J. Murray of Columbia, D. R. Coker of Hartsville, B. C. Matthews of Newberry, E. H. Pringle, W. H. Cogswell, John T. Leonard, Augustine T. Smythe, Jr., Hyman Pearlstine, A. W. Litschgi, Julius Brittlebank, E. K. Marshall and Oscar E. Johnson, all of Charleston, S. C.

S. C., Furman.—The Farmers and Merchants' Bank of Furman has been granted a commission; capital $10,000. W. P. Ellis, J. F. Causey, Jr., and E. A. Fripp are the incorporators.

S. C., Jonesville.—Official: The Jonesville Insurance Loan & Realty Co. chartered and incorporated; capital, $10,000; E. F. McWhirter, president and treasurer; D. B. Free, Jr., vice-president; C. N. Alexander, secretary and manager; loan committee, E. F. McWhirter, C. M. McWhirter and D. B. Free, Jr. Business began February 2.

S. C., Manning.—Official: The People's Bank & Trust Co. chartered; capital, $25,000. Has organized with directors thus: Charlton Durant, president; R. J. Alderman, C. R. Spratt, D. M. Branham, M. M. Krasnoff and F. H. Shuler. Business is to begin immediately.

Tenn., Bradyville.—The Bank of Bradyville, capital $10,000, is reported in process of organization.

Tex., Coupland.—The Coupland State Bank, capital $10,000, is reported organized.

Tex., Dallas.—The General Bonding & Casualty Insurance Co. of Dallas is granted a license, being recently chartered; capital $200,000; president, Robert L. Warren of Terrell, Tex.; secretary, John B. Stephenson; treasurer, J. P. Hatfield.

Tex., Fort Worth.—Official: The Bankers' Trust Co. is chartered and incorporated; capital $100,000; a new concern; offices in the Flatiron Bldg. Fort Worth; directors, R. T. Stuart, president; W. B. Harrison, vice-president and chairman of the board; Coke W. Harkrider, John Scharbauer, M. H. Mills, all of Fort Worth; G. L. Paxton of Abilene, W. B. Slaughter of Big Springs, L. T. Lester of Canyon, C. H. Boedeker of Bowie, J. I. McDowell of Big Springs, vice-presidents; Ben F. Allen, Sr., of Fort Worth, secretary-treasurer; William Capps, H. P. Branham, C. C. Hayes, Roy B. Burnett and W. B. Townsend of Fort Worth; W. L. Saye of Comanche, T. M. Wingo of El Paso, R. L. McCaully of Sweetwater, H. B. Sanborn of Amarillo, J. H. Cristler of Childress, J. M. Black of Canyon, W. B. Beach of Hereford, W. T. Henderson and J. D. Jackson of Alpine and S. L. Rushing of Floydada, Tex.

Tex., Harleton.—First State Bank of Harleton, capital $10,000, chartered by P. O. Craver, W. N. Peal, E. L. Petet and others.

Tex., Hillsboro.—Hill County State Bank chartered; capital $50,000; incorporators, Thomas Ivy, Thos. J. Files, J. T. Johnson and others.

Tex., Houston.—Official: The South Texas Mortgage Co. organized; capital $300,000. R. P. Christian, president; H. Amberg, vice-president, and E. T. Dickson, secretary and treasurer.

Tex., Houston.—The American Surety & Casualty Co. is reported being organized. Barnett, Strauss & Co., fiscal agents, 1104 Scanlan Bldg.

Tex., Kyle.—The Kyle State Bank, according to press dispatches, has been organized with $30,000 capital.

Tex., Lockhart.—Official: The Flowers-McDowell Abstract Co. chartered; capital $2500. M. O. Flowers, president; George W. Waltan, vice-president; J. E. McDowell, secretary and treasurer. Directors: E. B. Coopwood, George W. Baker, George W. Walton, J. E. McDowell and M. O. Flowers. Business began February 1.

Tex., North Zulch.—The First Guaranty State Bank, capital $10,000, is reported incorporated by P. B. Shannon, W. A. Cole and Arthur Dowell.

Tex., North Zulch.—The Farmers' Guaranty State Bank of North Zulch is reported organized with $10,000 capital. T. J. Dowell of North Zulch is president; A. L. Lipscomb of Teague, cashier. W. E. Terrell is also reported a director.

Tex., Palestine.—Former Governor T. M. Campbell is reported to have organized a guaranty State bank with a paid-up capital of $100,000.

Tex., San Antonio.—The State Mutual Fire Insurance Co. is reported incorporated by H. W. Patrick, P. J. Poorbough, C. F. V. Preismeyer and others.

Tex., San Benito.—The Farmers' State Bank, capital $10,000, is reported being organized by W. E. Zawkings, Hulon Sterling, J. T. Porter and others.

Tex., Texas City.—The Texas City National Bank, capital $25,000, is approved. The organizers are J. H. Sieber of Texas City; R. L. Kempner, J. H. W. Steele and H. M. Coats.

Tex., Ben Franklin.—Official: The First State Bank has been chartered to succeed the Weldon Bank; capital $10,000; surplus $3750. The directors are W. E. Weldon, president; A. E. Sweeney, vice-president; W. M. Miller, cashier; W. G. Nun and C. H. Weldon; H. W. Miller is assistant cashier.

Tex., Chapin.—The Hidalgo & Starr Counties Abstract Co., capital $10,000, is reported incorporated by James H. Edwards, John Closner and Henry P. Grifin.

Tex., Flynn.—A $10,000 State bank is reported organized with C. Thompson, president; G. C. Cox and G. D. Cozart, vice-presidents; A. M. Beeman, cashier.

Tex., Weston.—The Weston Guaranty State Bank is reported organized with $10,000 capital.

Va., Elba.—The Elba Savings Bank incorporated; capital, $10,000 to $25,000. Incorporators: R. T. Ramsey, president; Walter C. Noell, cashier, and C. Eugene Shelton, secretary.

Va., Front Royal.—The People's National Bank of Front Royal has made application for a charter; capital, $50,000. Organizers: D. M. Kipps, M. L. Garrison, W. W. Tanner, F. K. Weaver and H. W. Beaty.

Va., Richmond.—Fidelity Securities Co. chartered; capital from $33,000 to $100,000. L. B. Williamson is president; J. D. Lawrence, vice-president; E. D. Moore, secretary-treasurer.

Va., Richmond.—Official: The Fidelity Securities Co. incorporated, 19 Chamber of Commerce; capital, minimum $33,000; maximum $100,000. Directors: L. B. Williamson, president; J. D. Lawrence, vice-president; E. D. Moore, secretary-treasurer; Edgar B. English, attorney, all at Richmond, Va. Business is to begin immediately.

W. Va., Charleston.—The American Safe Securities Co. of New York is reported chartered; capital, $500,000. Incorporators: Elmer H. Youngman, William F. Johnson, J.

OFFICE OF THE NORTHERN CENTRAL RAILWAY COMPANY.

BALTIMORE, MD., 7th February, 1911.

The Annual Meeting of the Stockholders of this Company will be held at 12 o'clock M. on Thursday, the 23rd day of February, 1911, at the General Office, southeast corner of Calvert and Centre Streets, Baltimore, when the Annual Report of the President and Board of Directors for 1910 will be presented, an election held for Twelve Directors to serve for the ensuing year, and such other business transacted as may properly come before the meeting.

LEWIS NEILSON,
Secretary.

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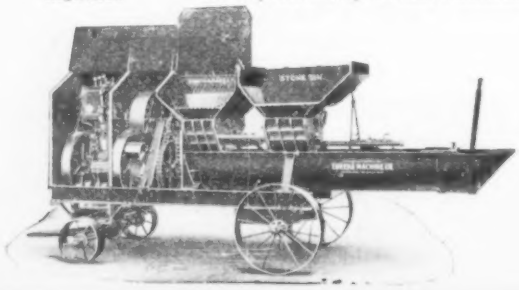

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NEW SECURITIES.

Ala., Albertville.—Press dispatches state that the election to vote on $7000 of electric-light bonds has been postponed from January 16 to February 20.

Ala., Mobile.—Official: The City Bank & Trust Co. of Mobile purchased $29,000 and the Equitable Life Assurance Society of New York $117,000 of the 5 per cent. 10-year street-improvement bonds; denomination $1000 each.

Ala., Montgomery.—Press dispatches state that arrangements have been made to dispose of $150,000 of bonds to a local bank. This includes $40,000 of 5 per cent. 10-year street-improvement bonds.

Ark., Osceola.—The Wm. R. Compton Company of Chicago is reported to have recently purchased $265,000 of 6 per cent. bonds of Mississippi County Drainage District No. 8; dated November 1, 1910, and due part yearly from 1911 to 1932, inclusive. It is stated that the Compton Company has sold $220,500 of the issue to private investors.

Fla., Palm Beach.—The City Council is reported to have authorized the issuing of $55,000 of street, dock and sewer improvement bonds.

Fla., St. Petersburg.—April 4, it is reported, an election is to be held to vote on electric-light-plant bonds.

Ga., Adel.—Official: $7500 of 5 per cent. 30-year bonds, dated January 1, 1911, and due January 1, 1941, have been sold to the J. H. McCrary Company of Atlanta, Ga., at par net to the town.

Ga., Boston.—Official: The $12,000 of 20-year school bonds, denomination $1000, have been sold to J. H. Hilsman & Co. of Atlanta.

Ga., Doerun.—Official: Bids are being received for $15,000 of 6 per cent. 30-year school and water-works bonds dated February 1; denomination $500. James L. Dowling is Mayor.

Ga., Rome.—Official: Bids will be received until noon March 1 by S. J. Powers, chairman finance committee, for $25,000 of school, $50,000 of paving, $50,000 of sewer and $75,000 of water-works-improvement bonds; interest 4 per cent.; denomination $1000; dated April 1, 1911; maturity 1920-1941. J. R. Cantrell is City Clerk.

Ga., Toccoa.—Official: Bids will be received until noon February 20 for $19,000 of sewerage and $7000 of 5 per cent. school bonds; dated January 1, 1911; maturity January 1, 1914; denomination $1000. John W. Bevens is Mayor.

Ga., Vidalia.—Election is called for February 8 on $200,000 of Toombs county road bonds.

Ky., Bowling Green.—A local banking firm is reported to have disposed of on a commission to local investors $20,000 of 4 per cent. public-improvement renewal bonds.

La., Kentwood.—Farson & Co. of Chicago are reported to have purchased $30,000 of school bonds.

La., Shreveport.—Reported that the proposed bond issue of $200,000 will be 4½ per cent. instead of 4 per cent. as originally intended. C. G. Rives, superintendent of accounts and finances, may give information.

La., St. Bernard.—Official: $7000 of 5 per cent. 40-50-year levee bonds of Lake Borgne district have been sold to Daniel C. Halder, 826 Union St., New Orleans. They are part of the issue of $100,000 for construction, maintenance and repairs, dated October 17, 1902.

Md., Annapolis.—The city will sell at auction February 10 at noon $20,000 of 4 per cent. street-improvement bonds maturing in from 8 to 24 years; dated July 1, 1910; denomination $1000; James F. Strange is Mayor and Phil E. Porter Clerk.

Md., Annapolis.—$1,000,000 of 3½ per cent. State road bonds, series D, have been sold at 91.5311 to a syndicate composed of Rhoades & Co., William Salomon & Co. and Parkinson & Burr, all of New York. The bonds are redeemable after February 1, 1921, and all mature by 1926. They are dated February 1, 1911.

Md., Baltimore.—Ordinances have been introduced in the City Council to provide for an election in the spring on the loans of $10,000,000 for sewers and $5,000,000 for paving.

Miss., Ellisville.—Reported voted: $10,000 of Jones County Agricultural High School bonds. It is expected that two local banks will take the bonds.

Miss., Hattiesburg.—Official: Report is confirmed that $150,000 of 5 per cent. 20-year State Normal School bonds, denomination $500, have been sold to Weil, Roth & Co., Cincinnati, O.

Miss., Pittsboro.—The new First National Bank of Columbus is reported to have been awarded some months ago $48,000 of 6 per cent. drainage-canal bonds.

Mo., Burlington Junction.—Reported voted: $8500 of light-plant bonds.

Mo., Monett.—Bids will be received until 7.30 P. M. February 7, it is reported, by Perry Short, Mayor, for $35,000 of 5 per cent. electric-light-plant construction bonds.

N. C., Edenton.—A dispatch says that the Council has resolved to amend the town charter so as to permit the issue of $20,000 of sewer bonds.

N. C., Winston-Salem.—A letter says that a bill will be introduced in the Legislature in a few days to permit Forsyth county to vote on $750,000 of bonds for roads.

N. C., Hertford.—A letter says that it is proposed to issue $30,000 of Plaquimans county courthouse bonds.

N. C., Winston-Salem.—March 14 an election is to be held to vote on $100,000 of 5 per cent. 30-year refunding bonds; denominations $500 and $1000. O. B. Eaton is Mayor and Wm. D. Jackson Secretary and Treasurer.

Okla., Ada.—Reported that bids are being received until 7.30 P. M. February 7 for $150,000 of 5 per cent. 25-year water-works-extension bonds. W. B. Jones is City Clerk.

Okla., Checotah.—John H. Mosier of Muskogee is reported to have purchased at par and accrued interest $40,000 of 6 per cent. 25-year bonds.

Okla., Claremore.—Official: Bids will be received until 8 P. M. February 20 for $9500 of 5 per cent. 25-year school-building bonds of District 14 of Rogers county; dated January 15. H. Jennings is clerk of the Board of Education.

Okla., Heavener.—Official: The $50,000 of 6 per cent. 25-year water-works bonds recently sold were not approved by the Attorney-General, and another vote upon the issue will have to be taken.

Okla., Oklahoma City.—Press dispatches state that the City Council has adopted a resolution providing for $125,000 of bonds for sewerage system for the Packingtown district. It is proposed to hold the election the same day vote is taken on $1,500,000 of water-works bonds, making the total $1,625,000.

Okla., Okmulgee.—A. J. McMahon of Oklahoma City is reported to have been awarded at 101 the $25,000 of Okmulgee county funding bonds; interest 6 per cent., semi-annual; denomination $1000; dated January 1, 1911; maturity January 1, 1931.

Okla., Sallisaw.—City is reported to have sold $16,000 of water, $4500 of sewer and $4000 of crosswalk bonds.

Okla., Stonewall.—Reported voted: $30,000 of water bonds.

Okla., Walter.—R. J. Edwards of Oklahoma City is reported to have purchased $57,000 of water, $26,000 of sewer and $7000 of light 20-year bonds.

S. C., Greenville.—Reported that an election will probably be held next August to vote on $100,000 of courthouse bonds.

S. C., Greenville.—A bill has been introduced in the Legislature to provide for an issue of funding bonds by Greenville county and for establishment of a sinking fund commission in connection therewith.

S. C., Spartanburg.—A bill has been introduced in the Legislature to authorize Spartanburg to issue $90,000 of bonds to fund the floating debt. The other items previously reported are omitted.

Tenn., Germantown.—The proposed issue is for $3000 of 6 per cent. 20-year bonds for building and repairing sidewalks, bridges and streets, and for other public improvements; denomination either $50 or $100. B. B. Isbell is Mayor.

Tenn., Jonesboro.—Reported that the Legislature has been asked to authorize the issuing of $50,000 of Washington county courthouse bonds; also $10,000 of city street-improvement bonds.

Tenn., Knoxville.—The proposed high-school bonds of Knox county will be $25,000 of 5 per cent. 20-year bonds. The Legislature will act on the proposition.

Tex., Brenham.—Official: Bids will be received until March 1, 1911, by W. R. Ewing for $57,000 of 5 per cent. 3-40-year levee district building bonds; dated January 1, 1911; denomination $1000.

Tenn., Lonsdale (P. O. Knoxville).—It is proposed to ask the Legislature for authority to issue $29,000 of bonds for fire protection and water supply.

Tenn., Memphis.—A bill has been introduced in the Legislature to authorize the issue of $250,000 of bonds previously reported as contemplated by the Board of Education of Shelby county.

Tenn., Memphis.—It is rumored that the city will issue within the next several months from $400,000 to $500,000 of 6 per cent. front-foot assessment bonds on streets. There may be also a proposition to issue $500,000 of park bonds.

Tenn., Memphis.—The Memphis Artesian Water Department contemplates, it is reported, the sale of $100,000 of 4 per cent. bonds, being balance remaining of the issue of $350,000 authorized in 1909.

Tenn., Mountain View.—Reported that a bill is to be introduced in the State Legislature providing for $10,000 of street-improvement bonds. Chas. M. Roberts is attorney for the town.

Tex., Austin.—The Attorney-General has approved bonds as follows: $6000 of 5 per cent. 10-40-year Stamford street-improvement, $4000 of 5 per cent. 10-20-year Axtell school, $15,000 of 4½ per cent. Sherman street-improvement, $11,500 of 4½ per cent. Sherman water-works; $3000 of 5 per cent. Johnson county district No. 36, school; $25,000 of 5 per cent. 10-30-year Guadalupe county road; $43,000 of 5 per cent. 5-40-year McCulloh county bridge, in five issues of $8000, $4000, $8000, $11,000 and $12,000, respectively; $5000 of 5 per cent. 10-year Andrews county common school district No. 1 building bonds; $3500 of 5 per cent. 10-40-year Burke independent school district bonds; $500 of district No. 38 and $500 of district No. 48 Young county 5 per cent. 10-20-year school bonds; $25,000 of 4½ per cent. 10-40-year Seguin street-improvement bonds.

Tex., Caldwell.—A dispatch says that an election has been called February 21 to vote on $5000 of water bonds.

Tex., Calvert.—An election is to be held in February to vote on $25,000 or $30,000 of 4½ or 5 per cent. 40-year bonds for city-hall and public improvements. Seth Burnitt is Mayor and H. P. Johnson City Secretary.

Tex., Dallas.—An official letter says that no bond issues are contemplated at present. This refers to a report that the City Commissioners had authorized $23,000 of bridge-repair bonds.

Tex., Eagle Lake.—Colorado county, says a dispatch, has ordered an election on $250,000 of good-road bonds.

Tex., Fort Worth.—Official: $2,000,000 of 5 per cent. 40-year bonds, denomination $1000, dated April 1, 1911, will be issued thus: $95,000 fire halls; $35,000 police station; $130,000 storm sewers; $50,000 electric-light extension; $165,000 streets and thoroughfares; $15,000 city warehouse; $30,000 poor hospital; $150,000 funding water-works; $1,350,000 water-works extension. W. J. Glivin is commissioner of finance and revenue.

Tex., Houston.—City Council has passed an ordinance for $500,000 of 4½ per cent. 20-30-year bonds to build the Main-street viaduct.

Tex., Quanah.—Official: The report that $15,000 of 5 per cent. 40-year school bonds, dated January 1, 1911, denomination $1000, have been sold to A. J. Hood & Co. of Detroit, Mich., is confirmed.

Tex., Mathis.—Reported voted: $12,000 of school bonds.

Tex., Paris.—Reported that an election is to be held March 7 to vote on $50,000 of school bonds.

Tex., Pecos.—Defeated: $25,000 of 5 per cent. 30-year sewer bonds. It is reported that another election will be held.

Tex., Roscoe.—Reported voted: $7500 of water-works bonds.

Tex., Bosqueville (R. F. D. from Waco).—Citizens of Bosqueville are reported circulating a petition requesting the Commissioners of McLennan County to order an election to vote on $7500 of school-building 5 per cent. 15-40-year bonds; denomination $100.

Tex., San Marcos.—Reported that an election is to be held in April to vote on $4000 of street-improvement bonds.

Tex., Snyder.—Reported that $27,400 of water-works and $17,000 of sewerage 5 per cent. 15-40-year bonds are still being offered for sale.

Tex., Stamford.—Carleton, Townes & Townes are reported to have been awarded at par $10,000 of 5 per cent. 10-40-year street-improvement bonds; denomination $1000; dated October 1, 1910.

Tex., Trinity.—Bids will be received, it is reported, until 3 P. M. February 20 for $13,500 of 5 per cent. 10-20 school bonds. J. Y. Renfro is secretary School Board.

Tex., Waxahachie.—Official: $30,000 of street bonds and $12,000 of school bonds, 5 per cent., 30-year and 24-year, denominations $500 and $1000, are to be voted on; election early in March.

Va., Cape Charles.—Official: Report is confirmed as to bids being received until February 6 for $20,000 of 5 per cent. school-building bonds. I. J. Burbage is City Clerk.

Va., Dinwiddie.—All of the $102,000 of 6 per cent. Dinwiddie county road-improvement bonds are reported sold at par, the Columbia Trust Co. of New York taking $61,500; the others were disposed of locally.

Va., Farmville.—Official: H. E. Barrow, chairman finance committee, is offering for sale $15,000 of 5 per cent. 10-20-year bonds.

Va., Graham.—Reported that it is proposed to hold an election to vote on about $40,000 of improvement bonds.

Va., Jonesville.—Official: Report is confirmed that $364,000 of 5 per cent. road bonds of Lee county, denomination $1000, have been sold to Seasongood & Mayer of Cincinnati, O. Bonds are dated January 30, 1911, and mature from 1916 to 1937, inclusive.

Va., Lexington.—Reported voted: $75,000 of additional water-supply bonds.

Va., Lexington.—Official: $75,000 of water-works extension bonds may be sold; date not determined. Samuel B. Walker, Jr., is Mayor.

Va., Luray.—A dispatch says that $10,000 of water-supply extension bonds were voted February 4.

Va., Norfolk.—Official: Bids will be received until March 23 by R. E. Steed, City Clerk, for $700,000 of 4½ per cent. 30-year bonds, $320,000 being for renewals and $250,000 for Park Pl. ward improvements and $130,000 for general improvements; denomination $1000; dated April 1, 1911; maturity April 1, 1941.

Va., Marion.—An official letter says that the $12,000 of 5 per cent. 10-20-year water-improvement bonds, denomination $500, dated June 1, 1910, have been sold privately to several parties.

Va., Pearisburg.—Official: Report is confirmed that the $30,000 of Giles county bridge-construction bonds were sold to A. J. Hood & Co. of Detroit, Mich, for $30,018.

Va., Pulaski.—Weil, Roth & Co. of Cincinnati, O., are reported to have purchased at par the entire issue of $70,000 of 5½ per cent. Pulaski district road bonds.

Va., Smithfield.—February 21, it is reported, an election is to be held to vote on $55,000 of electric-light and sewer bonds.

Va., Suffolk.—Official: Bids will be received until noon March 15 by the City Treasurer for 5 per cent. school bonds. W. B. Ferguson is chairman finance committee of City Council.

Va., Virginia Beach.—An official letter says that the matter regarding contemplated bond issue has been postponed. W. J. Wright is Mayor.

W. Va., Parkersburg.—February 21, it is stated, an election is to be held in Wood county to vote on $180,000 of 20-30-year road bonds; interest not to exceed 4½ per cent.; denominations $100, $500 and $1000. William Dudley is County Clerk.

W. Va., Terra Alta.—The Board of State School Funds is reported to have been awarded $15,000 of 5 per cent. 30-year sidewalk, sewer and paving bonds.

At Suffolk, Va., bids will be received until noon March 15 for 5 per cent. school bonds. *Further particulars will be found in the advertising columns.*

At Farmville, Va., $15,000 of 5 per cent. 10-20-year bonds are being offered for sale. *Further particulars will be found in the advertising columns.*

FINANCIAL NOTES.

The Bank of Cape Fear at Cape Fear, N. C., according to press dispatches, has increased its capital to $11,000.

The First State Bank of Clarksville, Tex., is reported to have amended its charter, increasing its capital from $50,000 to $100,000.

The First Guaranty State Bank, Clifton, Tex., has, it is reported, increased its capital from $10,000 to $20,000.

The American National Bank of Lynchburg, Va., is reported to have increased its capital from $150,000 to $300,000.

The Bank of Norcross at Norcross, Ga., has, according to press dispatches, amended its charter, increasing its capital from $25,000 to $30,000.

The First State Bank and the Traders' State Bank, both at Dallas, Tex., according to press dispatches, have consolidated under the name of the former institution; capital $100,000.

The Bryceland State Bank at Bryceland, La., has increased its capital to $15,000. R. Colbert is president.

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THE SOUTH YIELDS ANNUALLY

$2,690,000,000 from its factories.
$2,600,000,000 from its farms.
$440,000,000 from its forests.
$280,000,000 from its mines.
$1,000,000,000 of cotton with seed.
$730,000,000 of grain.
$200,000,000 of live-stock.
$175,000,000 of dairy products.
$170,000,000 of poultry products.
$150,000,000 of fruit and vegetables.
$69,000,000 of tobacco.
$50,000,000 of sugar products.
$628,000,000 of exports.
24,000,000,000 feet of lumber.
1,250,000,000 pounds of cotton goods.
1,104,000,000 bushels of cereals.
109,000,000 tons of coal.
25,000,000 barrels of petroleum.
9,180,000 tons of coke.
7,055,000 tons of iron ore.
3,400,000 tons of pig-iron.
2,395,000 tons of phosphate rock.
350,000 tons of sulphur.

THE SOUTH'S RESOURCES INCLUDE

27,600,000 population.
806,947 square miles of land area.
232,400,000 acres of wooded area.
16,000 miles of navigable streams.
2500 miles of coast line.
71,907 miles of railroad.
$2,120,000,000 in manufacturing.
265 separate kinds of industries.
11,100,000 active spindles.
235,000 active looms.
850 cotton mills.
840 cottonseed-oil mills.
125 blast furnaces.
25,000 lumber mills.
50 leading minerals.
490,000,000,000 tons of coal.
10,000,000,000 tons of iron ore.
9,000,000 horse-power in streams.
1,000,000 hydro-electric power.
350,000,000 acres of farm land.
38,700,000 head of live-stock.
$1,460,000,000 of bank deposits.
$21,250,000,000 of property.

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